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Summary of British Columbia Herring Sampling Data for the 1987-88 Season

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January 1989

Canadian Data Report of Fisheries and Aquatic Sciences No. 727

Pêches et Océans Fisheries and Oceans

Canada

Rapport statistique canadien des sciences halieutiques et aquatiques

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89-04942/

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Cat. No. Fs 97-13/727E ISSN 0706-6465

Correct citation for this publication:

Hamer, L. and V. Haist. 1989. Summary of British Columbia herring sampling data for the 1987-88 season. Can. Data Rep. Fish. Aquat. Sci. 727: 121 p.

ABSTRACT

Hamer, L. and V. Haist. 1989. Summary of British Columbia herring sampling data for the 1987-88 season. Can. Data Rep. Fish. Aquat. Sci. 727: 121 p.

Age compositions and the average length and weight at age, the sex ratio, and the maturity stages of herring samples combined by geographical area, time period, gear type, and source are tabulated for the 1987-88 season. Tables are given for two geographical groupings: statistical areas and sections.

Key words: Clupea harengus pallasi

RÉSUMÉ

Hamer, L. and V. Haist. 1989. Summary of British Columbia herring sampling data for the 1987-88 season. Can. Data Rep. Fish. Aquat. Sci. 727: 121 p.

Ce rapport présente la répartition par âge, la taille moyenne et le poids en fonction de l'âge, la proportion des sexes, et les stades de maturité des harengs échantillonnés pour la saison 1987-88, par région géographique, période de l'année, genre d'équipement de pêche et provenance. Les tableaux sont divisés en deux regroupements géographiques : zones statistiques et sections.

Mots-clé : Clupea harengus pallasi

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INTRODUCTION

Biological samples of herring are collected and sampled annually for length, weight, sex, maturity, age, and gonad weight. This information is used in stock assessments, and for determining stock characteristics. As well, it is useful to fishery managers in the field. This report summarizes biological charcteristics by geographical groupings, time periods, gear, and source types.

Individual fish records since the 1950-51 season are maintained on computer files. These files provide a 38-year series of data accessible for anaylses and modelling.

METHODS

The catch sampling program collects samples from a variety of sources.

Pre-fishery charters provide the majority of samples. Charter vessels assess all major herring stocks to obtain biological sampling data and to provide information for management of roe fisheries (Armstrong 1988). (A "major" stock is defined as a stock that can regularily support roe fisheries.) An additional goal in 1988 was to sample minor stocks in several areas to determine the potential of future roe fisheries on these stocks. Charter timing was set to ensure that the vessels were available before and during the main spawnings in each area. DFO (Department of Fisheries and Oceans) staff on board the charter vessels collected samples from the test sets.

Commercial samples were obtained from two types of fisheries: food and bait fisheries, and roe fisheries. Each vessel participating in the food and bait fishery is expected to provide a biological sample. Roe fisheries are sampled with the goal of obtaining ten samples from each seine fishery, and six samples from each gillnet fishery. A sampling plan is designed for each fishery to ensure that the sample series collected represents the catch in terms of time and space.

Various deparments within DFO organized research cruises and collected biological samples.

All biological samples are frozen on board vessels and shipped to the Pacific Biological Station where they are processed following standard procedures described by Hourston and Miller (1980). Gonad maturities are classified according to a modified Hjort maturity scale (Table 1). Female roe maturities in the data summaries are defined as:

Immature - Hjort stages 1-4
Mature - Hjort stages 5-6
Spent - Hjort stages 7-8.

Fish classified as immature in estimating the sex ratio are those whose gonads were not sufficiently developed for sex determination.

DATA COMPILATION AND SCREENING

The recorded data are entered onto computer tapes. The data are screened by computer for relationships between age, length, and weight which are outside the normal range for the coast as a whole (mean +/- 2 standard deviations). Anomalies are listed and the associated data checked for possible errors in recording or coding.

RESULTS

Four hundred and six biological samples were processed in the 1987-88 season.

Thirteen pre-fishery charter vessels sampled all major stocks, as well as some minor stocks in statistical areas 2W, 8, 9, 10 and 12. There were no potential roe fishery sites identified as a result of sampling minor stocks. A total of 259 pre-fishery charter samples were processed.

The food and bait herring fisheries took place in the Prince Rupert District, Johnstone Strait, and Strait of Georgia regions (Figs. 1-6), during November and December of 1987. Twelve food and bait herring samples were obtained from the Johnstone Strait and Strait of Georgia regions, but the vessels licensed to fish in the Prince Rupert District were unable to provide any samples.

The 1988 roe herring fisheries occurred in the Prince Rupert District, Central Coast, Strait of Georgia, and West Coast of Vancouver Island regions between March 3 and April 2. One hundred and three samples were collected from 14 roe fisheries in 1988. The relatively restricted fishing times and boundaries of the roe fisheries made it easier to meet the objective of collecting representative sample series (Thomas, J.O. and Associates, 1988).

Research samples in the 1987-88 season were collected from three sources. The La Perouse project conducted a research cruise (August 19-25, 1987) to study offshore herring biology, using the F/V CALEDONIAN, which

obtained six samples. The W. E. RICKER provided ten research samples. These fish were caught in tows made on a hydroacoustic survey of the Hecate Strait region. Fourteen research samples were acquired by the DFO seiner WALKER ROCK, which conducts annual fall and winter hydroacoustic surveys in the lower Strait of Georgia.

The following types of information, with associated table numbers, are summarized in this report:

Maturity stages for Pacific herring	Table 1
Charter vessel information	Table 2
Roe herring fishery summaries	Table 3
Codes for sample data	Table 4
Week numbers for sample data	Table 5
Sample summaries	Table 6
Data summaries	Tables 7-13

The data summaries include various groupings of samples by geographical areas, time periods, gear and source types. Each summary contains information on the age composition, the average length and weight at age, the sex ratio, and the maturity stages of the combined samples in that report.

A revised system of ageing herring was introduced this year. In the past, a fish was either assigned an age or was classified as unageable. With the revised ageing system, the option of two possible ages was used when it was difficult to positively determine an age. This system has not yet been evaluated. As a result, the age compositions in this report are based only on fish for which a single age was assigned.

ACKNOWLEDGMENTS

We thank Margaret Burke and Karen Charles of the Fish Aging Unit for determining the fish ages. J.O. Thomas and Associates Ltd. collected the samples, and Tideview Services processed them.

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Table 1. Maturity stages for Pacific herring. The descriptions of each stage are adapted from criteria developed for Atlantic herring (Bowers and Holliday 1961; Parrish and Saville 1965) and modified to suit the unique characteristics of Pacific herring which are exclusively winter-spring spawners.

Stage	State of maturity	Gonad appearance	Description	Timing
I.	Undeveloped	Thread-shaped	Virgin herring with small gonads, less than 2 mm broad. Accurate macroscopic determination of sex usually not possible.	Year-round for young herring usually less than 150 mm in standard length.
II.	Starting	Ribbon-shaped	Gonads increased in breadth to 3-5 mm. Sex determination possible. Testes reddish-gray colored and knife-shaped; ovaries reddish-wine colored and rounder. (The gonads of virgins and some repeat spawners cannot be differentiated macroscopically.)	Late spring and early summer.
III.	Developing	Tube-like	Gonads thickened, increased in breadth (5-15 mm) and elongated, but not extending full length of body cavity. Ovaries red to reddish-orange with granular appearance; testes reddish-gray with smooth texture.	Late summer and early fall.
IV.	Maturing	Prominent	Gonads extend full length of body cavity. Ovaries reddish-orange to yellow; eggs distinguishable, opaque, variable in size and separable. Testes mostly gray and will ooze milt if sliced with a knife. Blood vessels clearly visible in the ovary and testes walls.	Late fall and early winter (slightly earlier in males than females).
V.	Mature	Bulging	No blood vessels visible in gonad walls. Ovaries gold-yellow; eggs mostly transparent and uniform in size. Eggs can be exuded from the ovary under pressure and are adhesive on contact. Testes milk-white; sperm will flow under pressure.	Early winter for males, late winter for females.
VI.	Ripe	Running	Eggs transparent. Eggs and sperm flow easily without external pressure.	A few days prior to spawning (usually in late winter or early spring).
VII.	Spent	Baggy	Gonads slack. Ovaries may contain a few residual eggs. Testes limp and bloodshot.	Early spring for the first few weeks following spawning.
VIII.	Recovering	Compressed	Gonads wine-colored and usually longer and thicker than in Stage II. Blood vessels prominent. (This stage passes into Stage III, but may resemble Stage II in the process.)	Late spring and early summer.

Table 2. 1988 roe herring charter vessels by region and duration, and biological samples by charter vessel.

Region	Vessel	Duration	Samples processed
Queen Charlotte Islands	SEMIDI	Mar. 1 - Mar. 30	18
	KARENORA II	Mar. 6 - Mar. 31	18
Prince Rupert District	CHRISTAV	Mar. 14 - Apr. 8	24
	DISCOVERY ISLE	Mar. 20 - Apr. 6	10
Central Coast	ANTE B	Mar. 16 - Mar. 25	12
	FISHER LASSIE II	Mar. 1 - Mar. 31	27
	KYNOC	Mar. 3 - Mar. 29	18
Strait of Georgia / Johnstone Strait	DISCOVERY ISLE	Feb. 27 - Mar. 10	9
	OCEAN CLOUD	Feb. 23 - Mar. 19	12
	PACIFIC OCEAN	Feb. 23 - Mar. 19	24
	WESTVIEW	Feb. 27 - Mar. 23	16
West Coast Vancouver Island	ANTE B	Feb. 26 - Mar. 11	13
	C. VENTURE NO. 1	Feb. 23 - Mar. 19	17
	ELLING K	Feb. 23 - Mar. 19	20
	VAMPY	Feb. 23 - Mar. 24	21
Total			259

Table 3. Summary of 1988 roe herring fisheries.

Region	Gear	Management Areas	Date	Time	Hailed Catch (tonnes)
Prince Rupert District	SN	5-4,9	04/04/88	1000-1540	3447
	GN	3-4,4-5,6,7,8	02/04/88	1000-1900	2722
	GN	3-4,4-5,6,7,8,14	03/04/88	1000-1600	728
	GN	3-4,5,4-5,6,7,8,14	04/04/88	1000-1900	813
	GN	3-4,5,4-5,6,7,8,9,14	06/04/88	1100-1400	299
Central Coast	SN	7-18,19,21	19/03/88	0901-1402	3250
	GN	6-16,18	28/03/88	1000-1830	272
	GN	6-16,18	29/03/88	0700-1230	142
	GN	6-16,18,7-19,21,24	30/03/88	1000-1730	434
Strait of Georgia	SN	14-11	03/03/88	1316-1347	1556
	GN	14-7,9,10,11,13	12/03/88	0800-1900	6323
West Coast Vancouver Island	SN	23-9,10	11/03/88	1331-1552	5171
	SN	24-7	11/03/88	1432-1853	2440
	GN	24-6,7,8,9	23/03/88	1115-2135	1361

Table 4. Codings for British Columbia herring data.

A. Gear	B. Source	C. Preservative
19 Gillnet	0 Roe fishery	0 Freeze
29 Herring seine	1 Bait fishery	1 Fresh
20 Salmon seine	2 Research - inshore	2 Salt
21 Other seine	3 Research - offshore	3 Other
70 Beach seine	4 Other	4 Brine
50 Other trawl	5 Pre-fishery charter	
59 Herring trawl	6 Food fishery	
01 Other		

Table 5. Week numbers for Pacific herring data for the 1987-88 season.

Week Number	Duration	Week Number	Duration
1	Jul. 1 - Jul. 4	27	Dec. 27 - Jan. 2
2	Jul. 5 - Jul. 11	28	Jan. 3 - Jan. 9
3	Jul. 12 - Jul. 18	29	Jan. 10 - Jan. 16
4	Jul. 19 - Jul. 25	30	Jan. 17 - Jan. 23
5	Jul. 26 - Aug. 1	31	Jan. 24 - Jan. 30
6	Aug. 2 - Aug. 8	32	Jan. 31 - Feb. 6
7	Aug. 9 - Aug. 15	33	Feb. 7 - Feb. 13
8	Aug. 16 - Aug. 22	34	Feb. 14 - Feb. 20
9	Aug. 23 - Aug. 29	35	Feb. 21 - Feb. 27
10	Aug. 30 - Sep. 5	36	Feb. 28 - Mar. 5
11	Sep. 6 - Sep. 12	37	Mar. 6 - Mar. 12
12	Sep. 13 - Sep. 19	38	Mar. 13 - Mar. 19
13	Sep. 20 - Sep. 26	39	Mar. 20 - Mar. 26
14	Sep. 27 - Oct. 3	40	Mar. 27 - Apr. 2
15	Oct. 4 - Oct. 10	41	Apr. 3 - Apr. 9
16	Oct. 11 - Oct. 17	42	Apr. 10 - Apr. 16
17	Oct. 18 - Oct. 24	43	Apr. 17 - Apr. 23
18	Oct. 25 - Oct. 31	44	Apr. 24 - Apr. 30
19	Nov. 1 - Nov. 7	45	May 1 - May 7
20	Nov. 8 - Nov. 14	46	May 8 - May 14
21	Nov. 15 - Nov. 21	47	May 15 - May 21
22	Nov. 22 - Nov. 28	48	May 22 - May 28
23	Nov. 29 - Dec. 5	49	May 29 - Jun. 4
24	Dec. 6 - Dec. 12	50	Jun. 5 - Jun. 11
25	Dec. 13 - Dec. 19	51	Jun. 12 - Jun. 18
26	Dec. 20 - Dec. 26	52	Jun. 19 - Jun. 25
		53	Jun. 26 - Jun. 30

TABLE 6. 1987-88 Sample information by area and location.

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
2W	6	FLAMINGO INLET	198	3	9	29	5	0	100	93
2W	5	INSKIP CHANNEL	251	3	12	29	5	0	100	85
2W	5	INSKIP CHANNEL	292	3	13	29	5	0	100	85
2W	5	INSKIP CHANNEL	252	3	18	29	5	0	100	83
2W	5	INSKIP CHANNEL	208	3	20	29	5	0	100	95
2W	5	INSKIP CHANNEL	216	3	27	29	5	0	100	89
2W	6	LOUSCOONE INLET	196	3	10	29	5	0	100	94
2W	2	PORT LOUIS	285	3	5	29	5	0	99	88
2W	2	PORT LOUIS	250	3	13	29	5	0	100	95
2W	2	PORT LOUIS	328	3	14	29	5	0	100	89
2W	2	PORT LOUIS	288	3	24	29	5	0	100	89
2W	3	RENNELL SOUND	284	3	15	29	5	0	100	83
2W	3	RENNELL SOUND	234	3	17	29	5	0	100	87
2W	3	RENNELL SOUND	339	3	25	29	5	0	100	89
2W	3	RENNELL SOUND	206	3	26	29	5	0	100	97
2W	3	SEAL INLET	240	3	6	29	5	0	100	78
2W	3	SHIELDS BAY	249	3	7	29	5	0	100	91
2W	3	SHIELDS BAY	228	3	8	29	5	0	100	97
2W	6	SKINDASKUN ISLAND	222	3	19	29	5	0	100	95
2W	3	TARTU INLET	239	3	26	29	5	0	100	92
2E	21	BURNABY STRAIT	200	3	6	29	5	0	100	92
2E	21	BURNABY STRAIT	214	3	23	29	5	0	100	84
2E	21	DOLOMITE NARROWS	213	3	16	29	5	0	100	85
2E	25	HUSTON INLET	212	3	17	29	5	0	100	92
2E	21	HUXLEY ISLAND	203	3	16	29	5	0	100	92
2E	21	HUXLEY ISLAND	220	3	22	29	5	0	100	85
2E	21	JUAN PEREZ SOUND	15	11	20	59	2	0	72	33
2E	21	JUAN PEREZ SOUND	21	11	20	59	2	0	100	83
2E	21	JUAN PEREZ SOUND	22	11	20	59	2	0	100	78
2E	21	JUAN PEREZ SOUND	20	11	20	59	2	0	94	52
2E	21	JUAN PEREZ SOUND	36	11	21	59	2	0	100	88
2E	21	SEDGWICK BAY	211	3	11	29	5	0	100	91
2E	24	SELWYN INLET	202	3	26	29	5	0	100	79
2E	24	SELWYN INLET	224	3	29	29	5	0	100	90
2E	24	SELWYN INLET	326	3	29	29	5	0	100	85
2E	24	SELWYN INLET	233	3	29	29	5	0	100	87
2E	25	SKINCUTTLE INLET	201	3	7	29	5	0	100	91
2E	25	SKINCUTTLE INLET	210	3	24	29	5	0	100	81
2E	25	SKINCUTTLE INLET	204	3	27	29	5	0	100	88
2E	25	SKINCUTTLE INLET	199	3	27	29	5	0	100	90
2E	25	SWAN BAY	219	3	17	29	5	0	100	82

TABLE 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
3	33	BIRNIE ISLAND	321	3	15	29	5	0	100	91
3	33	CUNNINGHAM PASS	302	3	14	29	5	0	100	89
3	33	CUNNINGHAM PASS	315	3	15	29	5	0	100	91
3	33	CUNNINGHAM PASS	297	3	16	29	5	0	100	93
3	33	CUNNINGHAM PASS	320	3	20	29	5	0	100	92
3	33	CUNNINGHAM PASS	316	3	21	29	5	0	97	85
3	33	CUNNINGHAM PASS	189	4	2	29	5	0	100	90
3	33	CUNNINGHAM PASS	277	4	3	19	0	0	100	58
3	33	PORT SIMPSON	306	3	23	29	5	0	99	80
3	33	PORT SIMPSON	267	4	4	19	0	0	100	76
3	32	WALES ISLAND	296	3	15	29	5	0	100	87
4	42	BIG BAY	307	3	23	29	5	0	100	81
4	42	BIG BAY	266	4	2	19	0	0	100	67
4	42	BIG BAY	271	4	2	19	0	0	100	70
4	42	BIG BAY	282	4	2	19	0	0	100	63
4	42	BIG BAY	269	4	2	19	0	0	100	74
4	42	BIG BAY	265	4	6	19	0	0	100	78
4	42	HODGSON REEF	323	3	22	29	5	0	100	85
4	43	HUNT INLET	276	4	5	19	0	0	99	70
4	43	HUNT POINT	280	4	6	19	0	0	100	74
4	42	SLIPPERY ROCK	283	4	4	19	0	0	100	80
4	42	TREE BLUFF	197	4	2	29	5	0	100	86
4	42	TUGWELL ISLAND	322	3	22	29	5	0	100	80
5	52	ABSALOM ISLAND	312	3	28	29	5	0	100	87
5	52	ABSALOM ISLAND	309	3	29	29	5	0	100	79
5	52	ABSALOM ISLAND	301	3	31	29	5	0	95	85
5	52	ABSALOM ISLAND	294	4	3	29	5	0	100	93
5	59	BONILLA ROCK	17	11	16	59	3	0	100	80
5	59	BONILLA ROCK	16	11	22	59	3	0	100	79
5	52	CLAMSHELL ISLAND	313	4	2	29	5	0	100	85
5	52	COQUITLAM ISLAND	303	4	7	29	5	0	100	91
5	52	FREEMAN PASSAGE	273	4	4	29	0	0	100	83
5	52	FREEMAN PASSAGE	255	4	4	29	0	0	100	15
5	52	FREEMAN PASSAGE	281	4	4	29	0	0	100	68
5	52	FREEMAN PASSAGE	278	4	4	29	0	0	100	62
5	52	FREEMAN PASSAGE	194	4	4	29	5	0	97	90
5	52	FREEMAN PASSAGE	195	4	6	29	5	0	97	85
5	52	FREEMAN PASSAGE	23	11	16	59	2	0	100	80
5	52	FREEMAN PASSAGE	19	11	18	59	2	0	100	72
5	52	FREEMAN PASSAGE	18	11	18	59	2	0	100	76
5	52	GURD ISLAND	311	3	30	29	5	0	100	90
5	52	GURD POINT	295	3	24	29	5	0	100	89
5	52	GURD POINT	318	4	2	29	5	0	100	83

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
5	52	KITKATLA CHANNEL	365	4	4	29	0	0	100	81
5	52	KITKATLA CREEK	299	3	26	29	5	0	98	83
5	52	KITKATLA CREEK	300	3	27	29	5	0	96	82
5	52	KITKATLA INLET	319	3	25	29	5	0	100	96
5	52	KITKATLA INLET	314	3	26	29	5	0	100	90
5	52	KITKATLA INLET	305	3	30	29	5	0	99	90
5	52	KITKATLA INLET	355	4	4	29	0	0	100	79
5	52	KITKATLA INLET	363	4	4	29	0	0	100	82
5	52	KITKATLA INLET	270	4	4	29	0	0	100	85
5	52	KITKATLA INLET	367	4	4	29	0	0	100	88
5	52	KITKATLA INLET	361	4	4	29	0	0	100	90
5	52	KITKATLA INLET	268	4	4	29	0	0	100	87
5	52	KITKATLA INLET	275	4	4	29	0	0	100	85
5	52	KITKATLA INLET	354	4	4	29	0	0	100	88
5	52	KITKATLA INLET	279	4	4	29	0	0	100	80
5	52	KITKATLA INLET	272	4	4	29	0	0	100	89
5	52	KITKATLA INLET	310	4	6	29	5	0	100	90
5	52	NUBBLE POINT	258	4	4	29	0	0	100	78
5	52	ROBERT ISLAND	304	4	1	29	5	0	100	94
5	52	ROBERT ISLAND	298	4	4	29	5	0	100	91
5	52	SNASS POINT	308	3	18	29	5	0	100	88
5	52	WILLIS BAY	317	3	22	29	5	0	100	91
6	67	JAMIESON POINT	209	3	10	29	5	0	100	93
6	67	JAMIESON POINT	229	3	12	29	5	0	100	86
6	67	KITASU BAY	274	3	28	19	0	0	100	72
6	67	KITASU BAY	256	3	28	19	0	0	100	62
6	67	KITASU BAY	264	3	29	19	0	0	100	42
6	67	KITASU BAY	259	3	29	19	0	0	100	57
6	67	MARVIN ISLANDS	286	3	9	29	5	0	100	90
6	67	MARVIN ISLANDS	290	3	12	29	5	0	100	93
6	67	WILBY POINT	334	3	10	29	5	0	98	93
6	67	WILBY POINT	261	3	28	19	0	0	100	70
6	67	WILBY POINT	260	3	30	19	0	0	100	57
6	67	WINGATE POINT	253	3	10	29	5	0	100	88
7	72	BERRY INLET	291	3	9	29	5	0	100	88
7	72	BERRY INLET	205	3	22	29	5	0	100	87
7	72	DON PENINSULA	289	3	17	29	5	0	100	85
7	74	DUNDIVAN INLET	369	3	6	29	5	0	92	77
7	77	EAST HIGGINS PASS	231	3	11	29	5	0	100	97
7	77	EAST HIGGINS PASS	226	3	15	29	5	0	100	96
7	74	HOUGHTON ISLANDS	215	3	18	29	5	0	100	89
7	74	IDOL POINT	237	3	28	29	5	0	88	78
7	73	LAMA PASSAGE	358	3	3	29	5	0	100	93

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
7	74	NORMAN MORRISON BAY	368	3	1	29	5	0	100	90
7	74	NORMAN MORRISON BAY	343	3	10	29	5	0	100	88
7	74	NORMAN MORRISON BAY	242	3	14	29	5	0	100	88
7	74	NORMAN MORRISON BAY	353	3	24	29	5	0	100	89
7	74	NORMAN MORRISON BAY	235	3	29	29	5	0	100	94
7	74	NORMAN MORRISON BAY	263	3	30	19	0	0	100	73
7	74	NORMAN MORRISON BAY	257	3	30	19	0	0	100	64
7	74	PRINCESS ALICE ISLAND	232	3	18	29	5	0	100	91
7	74	RAYMOND PASS	217	3	2	29	5	0	100	85
7	74	RAYMOND PASS	248	3	7	29	5	0	100	87
7	74	RAYMOND PASS	244	3	8	29	5	0	99	83
7	74	RAYMOND PASS	221	3	8	29	5	0	99	93
7	74	RAYMOND PASS	245	3	11	29	5	0	100	90
7	74	RAYMOND PASS	254	3	12	29	5	0	93	81
7	72	SHINGLE ROCK	227	3	26	29	5	0	100	87
7	72	SPILLER CHANNEL	223	3	9	29	5	0	100	85
7	72	SPILLER CHANNEL	230	3	12	29	5	0	98	89
7	72	SPILLER CHANNEL	207	3	14	29	5	0	100	89
7	72	SPILLER CHANNEL	238	3	14	29	5	0	100	82
7	72	SPILLER CHANNEL	236	3	15	29	5	0	100	93
7	72	SPILLER INLET	293	3	15	29	5	0	100	88
7	74	STRYKER BAY	360	3	16	29	5	0	100	91
7	74	STRYKER BAY	193	3	19	29	0	0	100	64
7	74	STRYKER BAY	366	3	19	29	0	0	100	81
7	74	STRYKER BAY	356	3	19	29	0	0	100	87
7	74	STRYKER BAY	359	3	19	29	0	0	100	84
7	74	STRYKER BAY	190	3	19	29	0	0	100	80
7	74	STRYKER BAY	287	3	21	29	5	0	88	81
7	74	THOMPSON BAY	182	3	19	29	0	0	100	80
7	74	THOMPSON BAY	357	3	19	29	0	0	100	92
7	74	THOMPSON BAY	346	3	19	29	0	0	100	78
7	74	THOMPSON BAY	350	3	19	29	0	0	100	86
7	74	THOMPSON BAY	181	3	19	29	0	0	100	79
7	74	THOMPSON BAY	347	3	19	29	0	0	100	52
7	74	THOMPSON BAY	176	3	19	29	0	0	100	68
7	74	THOMPSON BAY	348	3	19	29	0	0	100	82
7	74	THOMPSON BAY	262	3	30	19	0	0	100	0
7	74	THOMPSON BAY	362	3	30	19	0	0	100	69
7	74	WASKESIU PASS	218	3	13	29	5	0	99	88
7	74	WASKESIU PASS	247	3	17	29	5	0	100	85
7	74	WASKESIU PASS	341	3	19	29	5	0	100	87
7	74	WASKESIU PASS	241	3	25	29	5	0	100	91
8	85	FAIRMILE PASSAGE	131	3	21	29	5	0	100	99

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
8	82	KIMSQUIT BAY	243	3	6	29	5	0	100	85
8	85	KWAKSHUA CHANNEL	325	3	5	29	5	0	100	90
8	85	KWAKSHUA CHANNEL	344	3	5	29	5	0	100	94
8	85	KWAKSHUA CHANNEL	132	3	16	29	5	0	100	95
8	85	KWAKSHUA CHANNEL	137	3	18	29	5	0	100	97
8	85	KWAKSHUA CHANNEL	134	3	21	29	5	0	100	93
8	85	KWAKSHUA CHANNEL	129	3	24	29	5	0	100	96
8	83	NORTH BENTINCK ARM	246	3	5	29	5	0	100	98
8	83	SOUTH BENTINCK ARM	225	3	5	29	5	0	100	95
9	91	FISH EGG INLET	139	3	23	29	5	0	100	95
9	91	FISH EGG INLET	130	3	24	29	5	0	100	91
9	92	GOOSE BAY	128	3	22	29	5	0	100	94
9	92	GOOSE BAY	138	3	22	29	5	0	100	96
10	102	TAKUSH HARBOUR	135	3	21	29	5	0	100	90
10	102	TAKUSH HARBOUR	136	3	22	29	5	0	100	96
10	102	TAKUSH HARBOUR	133	3	25	29	5	0	100	92
12	126	BELLEISLE SOUND	117	3	17	29	5	0	100	87
12	127	KNIGHT INLET (HEAD)	108	3	16	29	5	0	100	91
13	132	DEEPWATER BAY	113	3	12	29	5	0	100	94
13	132	DEEPWATER BAY	12	12	8	29	6	0	100	88
13	136	HOSKYN CHANNEL	338	2	25	29	5	0	100	85
13	132	KANISH BAY	124	3	12	29	5	0	100	86
14	142	BAYNES SOUND	156	2	24	29	5	0	100	81
14	142	BAYNES SOUND	84	3	3	29	0	0	100	80
14	142	BAYNES SOUND	76	3	3	29	0	0	100	90
14	142	BAYNES SOUND	85	3	3	29	0	0	100	81
14	142	BAYNES SOUND	86	3	3	29	0	0	100	78
14	142	BAYNES SOUND	49	3	3	29	5	0	100	90
14	142	BAYNES SOUND	69	3	3	29	0	0	100	78
14	142	BAYNES SOUND	23	3	3	29	5	0	100	89
14	142	BAYNES SOUND	73	3	3	29	0	0	100	80
14	142	BAYNES SOUND	79	3	3	29	0	0	100	85
14	142	BAYNES SOUND	70	3	3	29	0	0	100	81
14	142	BAYNES SOUND	80	3	3	29	0	0	100	83
14	142	BAYNES SOUND	72	3	3	29	0	0	100	86
14	142	BAYNES SOUND	83	3	3	29	0	0	100	67
14	142	BAYNES SOUND	35	3	6	29	5	0	99	87
14	142	CAPE GUMEY	172	3	12	19	0	0	100	76
14	142	CAPE LAZO	75	3	12	19	0	0	100	73
14	142	CAPE LAZO	169	3	12	19	0	0	100	73
14	142	CHROME ISLAND	8	2	29	29	5	0	100	91
14	142	CHROME ISLAND	26	2	29	29	5	0	100	91
14	142	COLLISHAW POINT	168	3	12	19	0	0	100	80

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
14	142	COMOX BAR	184	3	12	19	0	0	100	60
14	143	COTTAM POINT	34	3	8	29	5	0	100	84
14	142	DEEP BAY	158	2	26	29	5	0	100	87
14	142	DENMAN ISLAND (EAST)	71	3	12	19	0	0	100	76
14	142	DENMAN ISLAND (EAST)	179	3	12	19	0	0	100	83
14	142	DOWNES POINT	77	3	12	19	0	0	100	77
14	142	HORNBY ISLAND	33	3	1	29	5	0	100	86
14	142	HORNBY ISLAND	175	3	12	19	0	0	100	73
14	142	KOMAS BLUFF	155	2	28	1	4	0	100	85
14	142	LAMBERT CHANNEL	161	2	28	29	5	0	100	87
14	142	LAMBERT CHANNEL	36	3	3	29	5	0	100	92
14	142	LAMBERT CHANNEL	31	3	6	29	5	0	100	90
14	142	LAMBERT CHANNEL	44	3	9	29	5	0	100	86
14	142	NORMAN POINT	166	3	12	19	0	0	100	76
14	143	NORTHWEST BAY	9	3	2	29	5	0	100	90
14	143	NORTHWEST BAY	106	3	10	29	5	0	100	85
14	143	NORTHWEST BAY	98	3	10	29	5	0	100	89
14	143	NORTHWEST BAY	26	12	16	29	2	0	100	84
14	142	PHIPPS POINT	46	3	2	29	5	0	100	86
14	142	SANDY ISLAND	42	3	3	29	5	0	100	87
14	142	SANDY ISLAND	24	3	3	29	5	0	100	85
14	142	SANDY ISLAND	81	3	3	29	0	0	100	88
14	142	SANDY ISLAND	53	3	3	29	5	0	100	89
14	142	SHINGLE SPIT	335	2	25	29	5	0	100	89
14	142	SHINGLE SPIT	39	3	3	29	5	0	100	85
14	142	SHINGLE SPIT	29	3	5	29	5	0	100	88
14	142	SHIP POINT	142	3	7	29	5	0	100	88
14	142	TRIBUNE BAY	41	3	1	29	5	0	99	89
14	142	TRIBUNE BAY	17	3	1	29	5	0	100	83
14	142	TRIBUNE BAY	146	3	11	19	4	0	100	70
14	142	TRIBUNE BAY	183	3	12	19	0	0	100	74
15	152	DINNER ROCK	337	2	28	29	5	0	100	85
15	152	GRIEF POINT	157	2	27	29	5	0	100	82
15	152	HARWOOD ISLAND	342	2	28	29	5	0	100	85
15	152	LUND	160	2	29	29	5	0	100	87
15	152	LUND	110	3	11	29	5	0	100	90
15	152	POWELL RIVER MILL	162	3	1	29	5	0	100	86
15	152	SAVARY ISLAND	327	3	1	29	5	0	100	89
15	152	SLIAMMON VILLAGE	336	2	29	29	5	0	100	82
15	152	SLIAMMON VILLAGE	88	3	17	29	5	0	100	93
15	152	WESTVIEW	332	2	24	29	5	0	100	89
16	162	WILLINGDON BEACH +	154	3	1	29	5	0	100	90
17	173	BLACKBERRY POINT	103	3	17	29	5	0	100	75

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
17	173	HARMAC	11	2	23	29	5	0	100	92
17	172	JACK POINT	30	2	26	29	5	0	100	93
17	172	JACK POINT	22	2	26	29	5	0	100	88
17	172	JACK POINT	5	2	29	29	5	0	100	90
17	173	KULLEET BAY	5	11	17	29	2	0	100	85
17	172	MAUDE ISLAND	12	3	6	29	5	0	100	87
17	172	NANOOSE BAY	331	3	1	29	5	0	100	82
17	172	NANOOSE BAY	345	3	2	29	5	0	100	78
17	172	NANOOSE BAY	27	3	8	29	5	0	100	91
17	172	NEWCASTLE IS. EAST	20	3	8	29	5	0	100	84
17	173	NORTHUMBERLAND CHANNEL	153	1	11	29	2	0	100	84
17	173	NORTHUMBERLAND CHANNEL	102	1	19	29	2	0	100	89
17	173	NORTHUMBERLAND CHANNEL	126	3	3	29	5	0	100	72
17	173	NORTHUMBERLAND CHANNEL	25	3	5	29	5	0	100	82
17	173	NORTHUMBERLAND CHANNEL	15	3	5	29	5	0	100	90
17	173	NORTHUMBERLAND CHANNEL	105	3	11	29	5	0	100	82
17	173	NORTHUMBERLAND CHANNEL	91	3	18	29	5	0	100	79
17	173	NORTHUMBERLAND CHANNEL	6	11	16	29	2	0	100	85
17	173	NORTHUMBERLAND CHANNEL	35	11	20	29	2	0	100	87
17	173	NORTHUMBERLAND CHANNEL	1	12	16	29	2	0	100	86
17	173	PORLIER PASS	2	12	4	29	6	0	100	79
17	173	PORLIER PASS	7	12	9	29	6	0	100	80
17	173	PYLADES CHANNEL	97	3	12	29	5	0	100	84
17	173	PYLADES CHANNEL	96	3	17	29	5	0	100	83
17	173	REID ISLAND	10	12	1	29	6	0	100	49
17	173	STUART CHANNEL	152	1	13	29	2	0	100	86
17	173	STUART CHANNEL	30	11	16	29	2	0	99	91
17	173	STUART CHANNEL	33	11	17	29	2	0	100	80
17	173	YELLOW POINT	3	11	23	29	6	0	100	75
17	173	YELLOW POINT	9	11	23	29	6	0	100	70
18	181	CAPTAIN PASSAGE	159	1	18	29	2	0	100	89
18	182	NAVY CHANNEL	8	11	19	29	6	0	100	76
18	182	NAVY CHANNEL	4	11	19	29	6	0	100	82
18	182	PLUMPER SOUND	21	2	27	29	5	0	100	92
18	182	PLUMPER SOUND	11	11	9	29	6	0	100	80
18	182	PLUMPER SOUND	31	11	11	29	6	0	100	81
18	182	PLUMPER SOUND	14	11	16	29	6	0	100	83
18	182	PLUMPER SOUND	28	11	16	29	6	0	100	74
18	181	SWANSON CHANNEL	349	1	18	29	2	0	99	79
18	181	SWANSON CHANNEL	13	2	28	29	5	0	100	91
18	181	SWANSON CHANNEL	13	10	21	29	2	0	100	86
18	182	TUMBO CHANNEL	32	10	21	29	2	0	100	90
21	219	SWIFTSURE BANK	29	8	25	59	3	0	100	54

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
23	232	DAVID CHANNEL	68	3	11	29	0	0	100	74
23	232	DAVID CHANNEL	74	3	11	29	0	0	100	88
23	232	DAVID ISLAND	99	3	15	29	5	0	100	81
23	231	EASTERN (TREVOR) CHAN.	330	2	24	29	5	0	100	84
23	231	EASTERN (TREVOR) CHAN.	54	2	27	29	5	0	100	78
23	231	EASTERN (TREVOR) CHAN.	43	2	29	29	5	0	100	89
23	231	EASTERN (TREVOR) CHAN.	47	3	1	29	5	0	100	88
23	239	EDGE 100 FATHOM +	24	8	26	59	3	0	100	77
23	239	FINGER BANK +	34	8	25	59	3	0	79	61
23	232	FORBES ISLAND	37	3	7	29	5	0	100	92
23	232	FORBES ISLAND	1	3	8	29	5	0	100	96
23	239	FORTY MILE BANK	27	8	26	59	3	0	100	76
23	239	FORTY MILE BANK	37	8	27	59	3	0	100	69
23	239	FORTY MILE BANK	25	8	28	59	3	0	100	69
23	232	LARKIN ISLAND	104	3	15	29	5	0	100	87
23	232	LARKIN ISLAND	109	3	16	29	5	0	100	86
23	232	LYALL POINT	32	3	7	29	5	0	100	93
23	232	MACOAH PASSAGE	48	3	6	29	5	0	100	86
23	232	MACOAH PASSAGE	140	3	10	29	5	0	100	89
23	232	MAYNE BAY	64	3	11	29	0	0	100	63
23	232	NEWCOMBE CHANNEL	51	3	9	29	5	0	100	92
23	232	PEACOCK CHANNEL	50	3	6	29	5	0	100	80
23	232	PINKERTON ISLAND	45	3	10	29	5	0	100	87
23	232	SECHART CHANNEL	329	2	22	29	5	0	100	82
23	232	SECHART CHANNEL	340	3	4	29	5	0	100	82
23	232	SHEARS ISLANDS	62	3	11	29	0	0	100	77
23	232	SHEARS ISLANDS	87	3	11	29	0	0	100	88
23	232	SPILLING ISLET	57	3	8	29	5	0	100	91
23	232	SPILLING ISLET	67	3	11	29	0	0	100	72
23	232	ST. INES ISLAND	52	3	10	29	5	0	100	76
23	232	ST. INES ISLAND	82	3	11	29	0	0	100	77
23	232	ST. INES ISLAND	59	3	11	29	0	0	100	79
23	232	STOPPER ISLANDS	58	3	3	29	5	0	100	84
23	232	STOPPER ISLANDS	66	3	11	29	0	0	100	79
23	232	STOPPER ISLANDS	61	3	11	29	0	0	100	80
23	232	STOPPER ISLANDS	78	3	11	29	0	0	100	84
23	232	STOPPER ISLANDS	63	3	11	29	0	0	100	84
23	233	SWALE ROCK	40	3	5	29	5	0	100	94
23	233	SWALE ROCK	10	3	7	29	5	0	100	87
23	232	TOQUART BAY	55	3	5	29	5	0	100	84
23	232	TOQUART BAY	56	3	6	29	5	0	100	79
23	232	TOQUART BAY	60	3	11	29	0	0	100	87
24	245	BEDWELL SOUND	145	3	10	29	5	0	100	80

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
24	245	BEDWELL SOUND	119	3	11	29	5	0	100	78
24	245	CYPRESS BAY	178	3	11	29	0	0	100	82
24	245	CYPRESS BAY	174	3	11	29	0	0	100	80
24	245	CYPRESS BAY	191	3	11	29	0	0	100	65
24	245	CYPRESS BAY	185	3	11	29	0	0	100	88
24	245	CYPRESS BAY	65	3	11	29	0	0	100	80
24	245	CYPRESS BAY	186	3	11	29	0	0	100	83
24	245	CYPRESS BAY	192	3	11	29	0	0	100	75
24	245	CYPRESS BAY	188	3	11	29	0	0	100	83
24	245	CYPRESS BAY	120	3	12	29	5	0	99	82
24	245	CYPRESS BAY	118	3	13	29	5	0	100	75
24	245	CYPRESS BAY	100	3	13	29	5	0	100	80
24	245	CYPRESS BAY	90	3	13	29	5	0	100	84
24	245	CYPRESS BAY	115	3	13	29	5	0	100	79
24	245	CYPRESS BAY	112	3	14	29	5	0	77	62
24	245	CYPRESS BAY	111	3	14	29	5	0	100	86
24	245	CYPRESS BAY	149	3	15	29	5	0	100	91
24	245	CYPRESS BAY	143	3	15	29	5	0	100	77
24	245	ELBOW BANK	187	3	23	19	0	0	100	74
24	245	FATHER CHARLES CHANNEL	164	3	23	19	0	0	100	52
24	245	FATHER CHARLES CHANNEL	180	3	23	19	0	0	100	67
24	245	FELICE ISLAND	173	3	23	19	0	0	100	86
24	245	MEARES ISLAND	171	3	11	29	0	0	100	63
24	245	MEARES ISLAND	177	3	11	29	0	0	100	79
24	245	MEARES ISLAND	351	3	17	29	5	0	100	80
24	244	MILLAR CHANNEL	324	3	18	29	5	0	100	83
24	245	SARANAC ISLAND	148	3	10	29	5	0	100	91
24	245	SARANAC ISLAND	122	3	12	29	5	0	100	73
24	245	SARANAC ISLAND	114	3	12	29	5	0	100	77
24	245	SARANAC ISLAND	141	3	14	29	5	0	87	67
24	245	SARANAC ISLAND	107	3	15	29	5	0	100	85
24	245	STOCKHAM ISLAND	170	3	23	19	0	0	100	35
24	243	SYDNEY INLET	151	2	24	29	5	0	100	88
24	243	SYDNEY INLET	38	2	25	29	5	0	100	89
24	243	SYDNEY INLET	28	2	28	29	5	0	100	95
24	243	SYDNEY INLET	16	2	28	29	5	0	100	94
24	243	SYDNEY INLET	14	2	29	29	5	0	100	95
24	243	SYDNEY INLET	18	3	1	29	5	0	100	99
24	243	SYDNEY INLET	123	3	4	29	5	0	100	91
24	243	SYDNEY INLET	125	3	4	29	5	0	100	76
24	243	SYDNEY INLET	147	3	6	29	5	0	100	91
24	243	SYDNEY INLET	144	3	8	29	5	0	100	89
24	243	SYDNEY INLET	352	3	16	29	5	0	100	79

Table 6. (cont'd)

Area	Sect	Location	Sample Number	Mon	Day	Gear	Source	Pres.	Number of fish sampled	Number of fish aged
24	245	YARKSIS RESERVE	167	3	23	19	0	0	100	71
24	245	YARKSIS RESERVE	364	3	23	19	0	0	100	58
24	245	YARKSIS RESERVE	165	3	23	19	0	0	100	57
25	252	COOK CHANNEL	101	2	23	29	5	0	100	94
25	252	COOK CHANNEL	94	2	24	29	5	0	100	89
25	253	DOUBLE ISLAND	89	2	27	29	5	0	100	94
25	252	FRIENDLY COVE	121	2	27	29	5	0	100	88
25	252	FRIENDLY COVE	150	2	29	29	5	0	100	90
25	252	MAQUINNA POINT	163	2	29	29	5	0	100	89
25	252	MAQUINNA POINT	116	3	3	29	5	0	100	82
25	251	MOOYAH BAY	333	2	24	29	5	0	100	92
25	253	PORT LANGFORD	127	2	26	29	5	0	100	84
25	253	ROSA HARBOUR	92	2	25	29	5	0	100	96
25	253	ROSA HARBOUR	95	2	26	29	5	0	100	90
25	253	ROSA HARBOUR	93	3	1	29	5	0	100	91
25	253	ROSA HARBOUR	7	3	4	29	5	0	100	90
26	263	NASPARTI INLET	19	2	29	29	5	0	100	97
27	273	FORWARD INLET	2	3	1	29	5	0	100	90
27	273	HUNT ISLETS	6	2	27	29	5	0	100	93
27	272	KLASKISH INLET S. SHORE	3	3	1	29	5	0	100	94
27	272	MCDOUGAL ISLAND	4	3	1	29	5	0	100	94

TABLE 7 TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 21 - JUAN PEREZ SOUND
SAMPLE NUMBERS: 15, 22, 36, 21, 20
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
DATE: NOV 20/87 - NOV 21/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	231	36	7	23	22	4	5	2	132	466
% AT AGE	0.00	1.20	69.16	10.78	2.10	6.89	6.59	1.20	1.50	0.60	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.50	182.07	203.08	215.14	220.52	226.77	230.75	234.40	232.00	189.07	191.21
- STD. DEV.	0.00	4.20	8.91	10.30	8.43	7.04	5.88	4.79	6.58	19.80	31.12	23.20
WEIGHT - MEAN(gm)	0.00	61.50	86.35	121.56	141.71	154.65	167.32	185.25	196.40	207.00	102.22	103.93
- STD. DEV.	0.00	4.51	13.80	18.19	15.39	18.39	23.48	27.00	27.46	57.98	45.79	38.72

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	9	33	274	150	0	0	0	0	0
% AT STAGE	1.93	7.08	58.80	32.19	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	249	0	0	249
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	5.25	0.00	0.00	5.25

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	209	249	8	466
%	44.85	53.43	1.72	100.00
MEAN WEIGHT	104.39	106.07	25.13	103.93
% SAMP. WT.	45.05	54.54	0.42	100.00

TABLE 7 (CONT'D) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 52 - KITKATLA INLET
SAMPLE NUMBERS: 19, 18, 23
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
DATE: NOV 16/87 - NOV 18/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	25	102	28	20	28	9	12	3	72	300
% AT AGE	0.00	0.44	10.96	44.74	12.28	8.77	12.28	3.95	5.26	1.32	0.00	100.00
LENGTH - MEAN(mm)	0.00	178.00	172.56	190.03	201.25	213.30	214.18	218.44	225.58	242.67	199.39	198.43
- STD. DEV.	0.00	0.00	8.63	9.04	9.18	12.86	10.65	12.13	17.22	6.66	20.94	19.05
WEIGHT - MEAN(gm)	0.00	70.00	71.24	94.34	111.71	130.60	135.54	143.89	148.58	184.67	110.72	108.71
- STD. DEV.	0.00	0.00	12.36	13.97	17.01	20.65	20.11	33.89	31.36	23.46	32.33	30.66

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	35	211	53	0	0	0	0	0
% AT STAGE	0.33	11.67	70.33	17.67	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	159	0	0	159
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	4.26	0.00	0.00	4.26

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	138	159	3	300
%	46.00	53.00	1.00	100.00
MEAN WEIGHT	108.39	109.96	57.00	108.71
% SAMP. WT.	45.87	53.61	0.52	100.00

TABLE 7 (CONT'D) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 59 - OFFSHORE AREA 5
SAMPLE NUMBERS: 17, 16
SOURCE: RESEARCH - OFFSHORE
GEAR: HERRING TRAWL
DATE: NOV 16/87 - NOV 22/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	28	58	18	23	18	8	4	2	41	200
% AT AGE	0.00	0.00	17.61	36.48	11.32	14.47	11.32	5.03	2.52	1.26	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	178.89	191.83	204.78	212.30	215.67	218.50	236.50	224.00	206.80	201.04
- STD. DEV.	0.00	0.00	6.70	7.17	8.98	9.74	9.02	8.60	14.98	5.66	17.55	17.09
WEIGHT - MEAN(gm)	0.00	0.00	78.29	97.24	119.78	130.91	140.89	139.63	185.00	143.50	121.83	113.37
- STD. DEV.	0.00	0.00	9.44	12.48	15.72	20.27	20.63	30.99	24.58	27.58	28.81	29.74

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	19	118	62	0	0	0	0	0
% AT STAGE	0.50	9.50	59.00	31.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	113	0	0	113
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	4.15	0.00	0.00	4.15

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	86	113	1	200
%	43.00	56.50	0.50	100.00
MEAN WEIGHT	111.78	114.68	102.00	113.37
% SAMP. WT.	42.40	57.15	0.45	100.00

Table 7 (CONT'D) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 239 - OFFSHORE AREA 23
SAMPLE NUMBERS: 37, 34, 24, 25, 27
SOURCE: RESEARCH - OFFSHORE
GEAR: HERRING TRAWL
DATE: AUG 25/87 - AUG 28/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	18	195	54	55	24	3	3	0	0	127	479
% AT AGE	0.00	5.11	55.40	15.34	15.63	6.82	0.85	0.85	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	145.11	183.24	203.07	209.07	218.29	220.67	234.67	0.00	0.00	192.02	191.65
- STD. DEV.	0.00	4.83	9.31	9.57	7.60	8.59	2.08	16.26	0.00	0.00	19.39	19.21
WEIGHT - MEAN(gm)	0.00	41.44	87.70	116.48	129.65	155.17	141.33	195.00	0.00	0.00	102.15	102.24
- STD. DEV.	0.00	4.51	16.76	16.50	16.65	19.69	4.93	59.19	0.00	0.00	31.22	31.71

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	32	298	66	0	0	0	0	0	83
% AT STAGE	6.68	62.21	13.78	0.00	0.00	0.00	0.00	0.00	17.33

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	105	0	0	105
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	1.02	0.00	0.00	1.02

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	107	105	267	479
%	22.34	21.92	55.74	100.00
MEAN WEIGHT	119.55	117.03	89.49	102.24
% SAMP. WT.	26.12	25.09	48.79	100.00

TABLE 8 SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 143 - QUALICUM
SAMPLE NUMBERS: 26
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
DATE: DEC 16/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	64	9	8	0	0	0	0	0	16	100
% AT AGE	0.00	3.57	76.19	10.71	9.52	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.00	186.13	194.33	200.25	0.00	0.00	0.00	0.00	0.00	196.94	188.91
- STD. DEV.	0.00	8.89	11.19	12.64	6.92	0.00	0.00	0.00	0.00	0.00	10.31	13.01
WEIGHT - MEAN(gm)	0.00	53.00	92.23	113.33	123.63	0.00	0.00	0.00	0.00	0.00	111.75	98.59
- STD. DEV.	0.00	5.29	18.28	26.25	16.83	0.00	0.00	0.00	0.00	0.00	19.09	23.06

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	40	59	0	0	0	0	0
% AT STAGE	0.00	1.00	40.00	59.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	48	0	0	48
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	8.55	0.00	0.00	8.55

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	52	48	0	100
%	52.00	48.00	0.00	100.00
MEAN WEIGHT	95.98	101.42	0.00	98.59
% SAMP. WT.	50.62	49.38	0.00	100.00

TABLE 8 (CONT'D) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT
SAMPLE NUMBERS: 152, 30,102, 6, 35, 5, 33, 1,153
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
DATE: NOV 16/87 - JAN 19/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	2	45	544	89	73	17	3	0	0	0	126	899
% AT AGE	0.26	5.82	70.38	11.51	9.44	2.20	0.39	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	85.50	162.22	185.24	199.43	204.38	215.82	217.67	0.00	0.00	0.00	192.71	188.56
- STD. DEV.	4.95	14.15	13.05	11.69	13.63	6.66	9.29	0.00	0.00	0.00	15.08	17.04
WEIGHT - MEAN(gm)	7.50	60.47	93.26	118.92	132.34	153.65	152.00	0.00	0.00	0.00	106.36	100.31
- STD. DEV.	0.71	16.62	20.41	21.39	24.17	15.99	27.51	0.00	0.00	0.00	27.16	27.94

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	17	330	498	51	0	0	0	2
% AT STAGE	0.11	1.89	36.71	55.39	5.67	0.00	0.00	0.00	0.22

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	415	0	0	415
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	7.76	0.00	0.00	7.76

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	480	415	4	899
%	53.39	46.16	0.44	100.00
MEAN WEIGHT	99.24	102.29	24.00	100.31
% SAMP. WT.	52.82	47.07	0.11	100.00

TABLE 8 (CONT'D) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 181 - SWANSON CHANNEL
SAMPLE NUMBERS: 159,349, 13
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
DATE: OCT 21/87 - JAN 18/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	18	172	35	24	3	2	0	0	0	45	299
% AT AGE	0.00	7.09	67.72	13.78	9.45	1.18	0.79	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	173.22	190.25	203.37	209.42	220.33	218.50	0.00	0.00	0.00	200.02	194.26
- STD. DEV.	0.00	6.67	11.10	11.20	11.62	7.02	19.09	0.00	0.00	0.00	17.70	15.03
WEIGHT - MEAN(gm)	0.00	72.78	103.53	127.66	139.50	164.33	152.00	0.00	0.00	0.00	117.98	110.50
- STD. DEV.	0.00	11.31	20.85	22.29	22.60	14.19	22.63	0.00	0.00	0.00	26.68	26.95

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	13	62	202	22	0	0	0	0
% AT STAGE	0.00	4.35	20.74	67.56	7.36	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	126	0	0	126
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	12.08	0.00	0.00	12.08

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	172	126	1	299
%	57.53	42.14	0.33	100.00
MEAN WEIGHT	109.52	111.94	99.00	110.50
% SAMP. WT.	57.01	42.69	0.30	100.00

TABLE 8 (CONT'D) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 182 - PLUMPER SOUND
SAMPLE NUMBERS: 32
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
DATE: OCT 21/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	1	23	59	6	1	0	0	0	0	0	10	100
% AT AGE	1.11	25.56	65.56	6.67	1.11	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	85.00	149.65	176.47	208.83	200.00	0.00	0.00	0.00	0.00	0.00	183.80	172.30
- STD. DEV.	0.00	8.42	18.59	6.68	0.00	0.00	0.00	0.00	0.00	0.00	23.13	24.03
WEIGHT - MEAN(gm)	8.00	45.30	87.36	138.83	139.00	0.00	0.00	0.00	0.00	0.00	99.00	81.66
- STD. DEV.	0.00	8.48	26.71	11.41	0.00	0.00	0.00	0.00	0.00	0.00	37.82	34.84

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	18	76	1	0	0	0	0	3
% AT STAGE	2.00	18.00	76.00	1.00	0.00	0.00	0.00	0.00	3.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	46	0	0	46
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	3.54	0.00	0.00	3.54

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	48	46	6	100
%	48.00	46.00	6.00	100.00
MEAN WEIGHT	94.73	73.63	38.67	81.66
% SAMP. WT.	55.68	41.48	2.84	100.00

TABLE 9 SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION

SECTION: 132 - DEEPWATER BAY
SAMPLE NUMBERS: 12
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
DATE: DEC 8/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	40	20	20	7	1	0	0	0	12	100
% AT AGE	0.00	0.00	45.45	22.73	22.73	7.95	1.14	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	178.20	195.40	201.80	207.71	220.00	0.00	0.00	0.00	192.83	190.60
- STD. DEV.	0.00	0.00	11.03	9.47	9.83	11.61	0.00	0.00	0.00	0.00	12.04	15.17
WEIGHT - MEAN(gm)	0.00	0.00	81.68	108.05	117.90	131.29	181.00	0.00	0.00	0.00	102.83	101.20
- STD. DEV.	0.00	0.00	16.98	18.01	16.50	30.18	0.00	0.00	0.00	0.00	22.23	26.20

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	28	70	0	0	0	0	1
% AT STAGE	0.00	1.00	28.00	70.00	0.00	0.00	0.00	0.00	1.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	49	0	0	49
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	6.95	0.00	0.00	6.95

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	50	49	1	100
%	50.00	49.00	1.00	100.00
MEAN WEIGHT	101.76	101.57	55.00	101.20
% SAMP. WT.	50.28	49.18	0.54	100.00

TABLE 9 (CONT'D) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT
SAMPLE NUMBERS: 7, 10, 9, 3, 2
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
DATE: NOV 23/87 - DEC 9/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	203	66	64	11	2	1	0	0	147	500
% AT AGE	0.00	1.70	57.51	18.70	18.13	3.12	0.57	0.28	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.17	188.93	201.20	209.89	217.64	218.00	224.00	0.00	0.00	191.29	194.58
- STD. DEV.	0.00	8.08	10.88	8.52	10.05	8.09	2.83	0.00	0.00	0.00	16.62	15.01
WEIGHT - MEAN(gm)	0.00	73.67	98.30	119.03	142.11	151.64	171.00	164.00	0.00	0.00	104.16	109.66
- STD. DEV.	0.00	5.16	18.23	16.01	19.60	13.67	5.66	0.00	0.00	0.00	29.19	27.45

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	225	271	0	0	0	0	0
% AT STAGE	0.00	0.80	45.00	54.20	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	250	0	0	250
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	7.34	0.00	0.00	7.34

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	250	250	0	500
%	50.00	50.00	0.00	100.00
MEAN WEIGHT	106.48	112.84	0.00	109.66
% SAMP. WT.	48.55	51.45	0.00	100.00

TABLE 9 (CONT'D) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION

SECTION: 182 - PLUMPER SOUND
SAMPLE NUMBERS: 31, 11, 28, 8, 14, 4
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
DATE: NOV 9/87 - NOV 19/87

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	2	26	308	72	56	7	3	1	1	0	124	600
% AT AGE	0.42	5.46	64.71	15.13	11.76	1.47	0.63	0.21	0.21	0.00	0.00	100.00
LENGTH - MEAN(mm)	87.00	164.88	187.85	198.74	210.57	217.29	210.33	226.00	228.00	0.00	190.13	191.00
- STD. DEV.	16.97	11.49	10.79	10.37	9.50	6.97	5.51	0.00	0.00	0.00	15.13	16.21
WEIGHT - MEAN(gm)	8.00	64.73	100.87	119.83	147.38	167.00	152.00	191.00	181.00	0.00	106.79	108.14
- STD. DEV.	4.24	15.40	19.14	20.77	20.97	16.38	7.00	0.00	0.00	0.00	29.35	29.03

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	4	18	297	278	0	0	0	0	3
% AT STAGE	0.67	3.00	49.50	46.33	0.00	0.00	0.00	0.00	0.50

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	298	0	0	298
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	5.51	0.00	0.00	5.51

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	278	298	24	600
%	46.33	49.67	4.00	100.00
MEAN WEIGHT	107.23	111.96	71.42	108.14
% SAMP. WT.	45.94	51.42	2.64	100.00

TABLE 10 SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 52 - KITKATLA INLET
SAMPLE NUMBERS: 365,273,255,367,270,361,275,279,258,355, 281,354,363,272,278,268
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: APR 4/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	7	395	449	62	114	167	22	19	5	360	1600
% AT AGE	0.00	0.56	31.85	36.21	5.00	9.19	13.47	1.77	1.53	0.40	0.00	100.00
LENGTH - MEAN(mm)	0.00	168.43	177.18	192.36	203.69	212.74	219.31	221.23	226.84	236.60	198.85	195.62
- STD. DEV.	0.00	13.00	9.79	9.00	8.44	9.24	8.10	7.71	10.45	3.51	19.29	18.67
WEIGHT - MEAN(gm)	0.00	62.14	74.65	96.81	115.69	132.95	150.28	149.27	171.58	184.40	111.68	105.30
- STD. DEV.	0.00	18.61	14.39	17.18	15.57	22.87	23.62	21.79	35.24	30.15	34.82	34.23

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	77	1355	160	5	0	1
% AT STAGE	0.00	0.06	0.06	4.81	84.69	10.00	0.31	0.00	0.06

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	34	758	2	794
%	4.28	95.47	0.25	100.00
% SAMPLE WEIGHT	0.90	26.03	0.01	26.94

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	805	794	1	1600
%	50.31	49.63	0.06	100.00
MEAN WEIGHT	98.88	111.85	71.00	105.30
% SAMP. WT.	47.25	52.71	0.04	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 74 - THOMPSON BAY
SAMPLE NUMBERS: 193,359,190,356,346,350,357,348,176,182, 366,181,347
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: MAR 19/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	649	123	61	98	19	22	21	16	285	1298
% AT AGE	0.00	0.39	64.07	12.14	6.02	9.67	1.88	2.17	2.07	1.58	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.00	183.63	198.37	211.89	221.00	225.47	229.41	230.86	233.25	195.74	194.55
- STD. DEV.	0.00	15.03	11.98	11.31	11.39	9.93	8.53	9.50	8.48	7.30	22.34	20.40
WEIGHT - MEAN(gm)	0.00	66.75	90.44	119.43	145.92	175.85	193.00	197.05	208.71	199.44	119.97	115.22
- STD. DEV.	0.00	17.21	21.94	26.36	30.97	31.03	25.86	29.41	33.73	31.22	47.40	45.18

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	68	1138	89	2	0	1
% AT STAGE	0.00	0.00	0.00	5.24	87.67	6.86	0.15	0.00	0.08

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	34	666	0	700
%	4.86	95.14	0.00	100.00
% SAMPLE WEIGHT	0.83	27.18	0.00	28.01

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	597	700	1	1298
%	45.99	53.93	0.08	100.00
MEAN WEIGHT	106.82	122.38	117.00	115.22
% SAMP. WT.	42.64	57.28	0.08	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 142 - BAYNES SOUND
SAMPLE NUMBERS: 72, 81, 86, 73, 84, 69, 79, 83, 76, 85, 70, 80
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: MAR 3/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	13	484	168	228	66	15	2	1	0	223	1200
% AT AGE	0.00	1.33	49.54	17.20	23.34	6.76	1.54	0.20	0.10	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.54	191.80	204.80	213.00	218.86	223.87	221.00	235.00	0.00	200.84	201.07
- STD. DEV.	0.00	12.67	11.03	8.82	9.62	9.55	10.39	2.83	0.00	0.00	13.07	14.70
WEIGHT - MEAN(gm)	0.00	61.92	93.11	117.75	136.53	146.94	159.87	181.00	216.00	0.00	111.15	111.87
- STD. DEV.	0.00	15.22	20.27	19.97	24.24	26.25	30.16	15.56	0.00	0.00	27.40	30.41

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	170	959	68	2	0	0
% AT STAGE	0.00	0.00	0.08	14.17	79.92	5.67	0.17	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	86	480	0	566
%	15.19	84.81	0.00	100.00
% SAMPLE WEIGHT	2.42	24.36	0.00	26.78

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	634	566	0	1200
%	52.83	47.17	0.00	100.00
MEAN WEIGHT	106.67	117.69	0.00	111.87
% SAMP. WT.	50.38	49.62	0.00	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS
SAMPLE NUMBERS: 78, 61, 68, 60, 82, 63, 74, 64, 87, 62, 59, 67, 66
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: MAR 11/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	14	782	70	95	50	12	5	3	1	268	1300
% AT AGE	0.00	1.36	75.78	6.78	9.21	4.84	1.16	0.48	0.29	0.10	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.71	193.17	203.50	218.13	225.16	227.83	238.00	237.67	242.00	198.93	198.36
- STD. DEV.	0.00	8.85	8.98	8.93	9.60	9.54	11.68	11.34	7.37	0.00	16.12	14.83
WEIGHT - MEAN(gm)	0.00	67.50	[illegible]	119.87	153.38	170.44	172.50	205.00	200.33	210.00	112.99	111.93
- STD. DEV.	0.00	11.71	17.72	18.68	24.77	24.98	24.77	29.30	26.03	0.00	34.43	31.27

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	229	1020	45	3	0	1
% AT STAGE	0.00	0.08	0.08	17.62	78.46	3.46	0.23	0.00	0.08

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	71	604	0	675
%	10.52	89.48	0.00	100.00
% SAMPLE WEIGHT	2.01	25.84	0.00	27.84

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	623	675	1	1299
%	47.96	51.96	0.08	100.00
MEAN WEIGHT	106.02	117.53	46.00	111.95
% SAMP. WT.	45.42	54.55	0.03	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 245 - VARGAS ISLAND
SAMPLE NUMBERS: 174, 65,171,191,178,185,192,188,186,177
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: MAR 11/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	337	55	189	136	40	10	6	4	222	1000
% AT AGE	0.00	0.13	43.32	7.07	24.29	17.48	5.14	1.29	0.77	0.51	0.00	100.00
LENGTH - MEAN(mm)	0.00	187.00	196.61	209.29	219.16	225.13	233.43	235.90	245.83	243.25	212.45	211.30
- STD. DEV.	0.00	0.00	8.31	9.36	9.21	8.69	9.31	10.45	9.60	9.00	17.25	16.54
WEIGHT - MEAN(gm)	0.00	82.00	106.11	131.87	156.08	170.47	196.82	192.60	209.33	198.00	142.77	139.32
- STD. DEV.	0.00	0.00	17.50	20.87	23.92	24.63	26.04	25.05	24.84	8.68	39.35	38.27

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	7	922	71	0	0	0
% AT STAGE	0.00	0.00	0.00	0.70	92.20	7.10	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	443	0	444
%	0.23	99.77	0.00	100.00
% SAMPLE WEIGHT	0.05	30.85	0.00	30.90

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	556	444	0	1000
%	55.60	44.40	0.00	100.00
MEAN WEIGHT	129.55	151.56	0.00	139.32
% SAMP. WT.	51.70	48.30	0.00	100.00

TABLE 11 GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 33 - PORT SIMPSON
SAMPLE NUMBERS: 277,267
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 3/88 - APR 4/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	2	15	17	28	52	13	5	2	66	200
% AT AGE	0.00	0.00	1.49	11.19	12.69	20.90	38.81	9.70	3.73	1.49	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	208.50	212.53	217.94	218.96	224.00	226.31	227.80	242.00	222.47	221.68
- STD. DEV.	0.00	0.00	3.54	6.09	7.86	6.00	8.27	8.87	6.69	1.41	8.51	8.82
WEIGHT - MEAN(gm)	0.00	0.00	136.00	137.60	143.41	146.18	160.75	165.46	155.60	187.00	153.15	153.18
- STD. DEV.	0.00	0.00	4.24	10.57	12.21	13.16	21.71	26.61	17.42	9.90	18.46	19.94

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	145	51	3	1	0
% AT STAGE	0.00	0.00	0.00	0.00	72.50	25.50	1.50	0.50	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	119	1	120
%	0.00	99.17	0.83	100.00
% SAMPLE WEIGHT	0.00	27.42	0.02	27.44

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	80	120	0	200
%	40.00	60.00	0.00	100.00
MEAN WEIGHT	149.11	155.90	0.00	153.18
% SAMP. WT.	38.94	61.06	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 42 - AREA 4 NORTH
SAMPLE NUMBERS: 283,266,271,269,265,282
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 2/88 - APR 6/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	1	21	19	86	211	59	23	12	168	600
% AT AGE	0.00	0.00	0.23	4.86	4.40	19.91	48.84	13.66	5.32	2.78	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	206.00	212.00	217.89	221.30	225.19	228.37	231.91	240.17	223.17	224.21
- STD. DEV.	0.00	0.00	0.00	6.15	7.03	8.10	8.52	8.07	7.65	13.45	9.91	9.74
WEIGHT - MEAN(gm)	0.00	0.00	114.00	139.43	146.42	151.02	160.64	160.36	167.26	191.42	157.33	157.91
- STD. DEV.	0.00	0.00	0.00	11.17	17.29	15.76	19.99	22.23	21.77	50.16	23.75	22.64

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	8	461	108	20	2	1
% AT STAGE	0.00	0.00	0.00	1.33	76.83	18.00	3.33	0.33	0.17

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	6	330	12	348
%	1.72	94.83	3.45	100.00
% SAMPLE WEIGHT	0.48	25.17	0.07	25.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	251	348	1	600
%	41.83	58.00	0.17	100.00
MEAN WEIGHT	153.18	161.51	91.00	157.91
% SAMP. WT.	40.58	59.32	0.10	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 43 - AREA 4 SOUTH
SAMPLE NUMBERS: 276,280
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 6/88

SPECIMENS AT EACH AGE:	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	0	10	15	39	55	11	8	6	55	199
% AT AGE	0.00	0.00	0.00	6.94	10.42	27.08	38.19	7.64	5.56	4.17	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	0.00	213.80	216.87	222.41	225.05	231.73	227.63	234.00	223.96	223.79
- STD. DEV.	0.00	0.00	0.00	9.99	6.12	6.25	7.08	10.55	4.37	7.59	8.77	8.59
WEIGHT - MEAN(gm)	0.00	0.00	0.00	147.60	142.20	151.56	155.73	175.91	168.00	183.33	155.58	155.88
- STD. DEV.	0.00	0.00	0.00	27.20	8.74	14.26	19.93	24.25	21.76	32.41	21.54	21.41

HJORT MATURITY STAGES:	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	2	157	23	17	0	0
% AT STAGE	0.00	0.00	0.00	1.01	78.89	11.56	8.54	0.00	0.00

ROE MATURITY (FEMALE):	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	130	12	143
%	0.70	90.91	8.39	100.00
% SAMPLE WEIGHT	0.18	25.92	0.25	26.35

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	56	143	0	199
%	28.14	71.86	0.00	100.00
MEAN WEIGHT	147.57	159.14	0.00	155.88
% SAMP. WT.	26.64	73.36	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 67 - LAREDO SOUND
SAMPLE NUMBERS: 261,274,256,260,259,264
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: MAR 28/88 - MAR 30/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	11	41	41	89	62	30	42	44	240	600
% AT AGE	0.00	0.00	3.06	11.39	11.39	24.72	17.22	8.33	11.67	12.22	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	201.27	211.32	216.59	217.11	222.13	221.37	227.48	228.02	219.59	219.64
- STD. DEV.	0.00	0.00	9.54	6.66	6.41	8.09	6.53	7.48	9.48	8.01	11.14	10.35
WEIGHT - MEAN(gm)	0.00	0.00	131.09	147.02	151.66	153.90	161.92	159.40	168.76	170.75	156.38	157.23
- STD. DEV.	0.00	0.00	17.30	15.59	16.14	20.96	20.76	20.98	28.60	23.19	23.04	22.89

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	9	497	72	21	1	0
% AT STAGE	0.00	0.00	0.00	1.50	82.83	12.00	3.50	0.17	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	288	13	302
%	0.33	95.36	4.30	100.00
% SAMPLE WEIGHT	0.07	26.42	0.10	26.59

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	298	302	0	600
%	49.67	50.33	0.00	100.00
MEAN WEIGHT	155.15	159.28	0.00	157.23
% SAMP. WT.	49.01	50.99	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 74 - THOMPSON BAY
SAMPLE NUMBERS: 362,257,262,263
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: MAR 30/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	13	17	43	65	24	12	15	17	194	400
% AT AGE	0.00	0.00	6.31	8.25	20.87	31.55	11.65	5.83	7.28	8.25	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	204.23	206.82	215.37	221.80	223.83	233.00	232.47	233.82	217.76	219.31
- STD. DEV.	0.00	0.00	4.95	6.45	8.22	9.03	10.29	8.53	12.73	9.71	11.36	11.95
WEIGHT - MEAN(gm)	0.00	0.00	136.85	144.00	156.51	166.77	173.13	190.75	206.73	212.06	168.30	168.99
- STD. DEV.	0.00	0.00	12.25	15.45	21.36	27.02	32.81	30.31	41.98	35.44	29.92	32.21

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	3	322	60	15	0	0
% AT STAGE	0.00	0.00	0.00	0.75	80.50	15.00	3.75	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	229	5	234
%	0.00	97.86	2.14	100.00
% SAMPLE WEIGHT	0.00	28.48	0.07	28.54

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	166	234	0	400
%	41.50	58.50	0.00	100.00
MEAN WEIGHT	163.87	172.63	0.00	168.99
% SAMP. WT.	40.24	59.76	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 142 - BAYNES SOUND
SAMPLE NUMBERS: 175,184, 77,172,183,179,169, 75,166,168, 71
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: MAR 12/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	75	122	395	160	45	19	3	2	279	1100
% AT AGE	0.00	0.00	9.14	14.86	48.11	19.49	5.48	2.31	0.37	0.24	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	204.03	214.05	216.49	221.26	226.98	231.26	222.33	248.00	216.08	216.71
- STD. DEV.	0.00	0.00	8.33	7.03	7.57	8.51	9.96	9.49	11.02	5.66	9.27	9.66
WEIGHT - MEAN(gm)	0.00	0.00	122.13	138.64	144.39	151.16	161.98	168.89	158.33	211.50	144.36	144.51
- STD. DEV.	0.00	0.00	17.61	15.39	16.60	20.48	24.05	26.01	29.09	23.33	40.53	27.10

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	3	10	975	86	26	0	0
% AT STAGE	0.00	0.00	0.27	0.91	88.64	7.82	2.36	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	2	618	9	629
%	0.32	98.25	1.43	100.00
% SAMPLE WEIGHT	0.07	27.64	0.03	27.74

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	471	629	0	1100
%	42.82	57.18	0.00	100.00
MEAN WEIGHT	140.56	147.47	0.00	144.51
% SAMP. WT.	41.65	58.35	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 245 - VARGAS ISLAND
SAMPLE NUMBERS: 167,170,364,180,165,173,187,164
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: MAR 23/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	27	35	204	147	64	15	6	2	300	800
% AT AGE	0.00	0.00	5.40	7.00	40.80	29.40	12.80	3.00	1.20	0.40	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	208.48	215.03	223.18	227.24	234.28	235.40	243.67	246.50	223.40	224.49
- STD. DEV.	0.00	0.00	5.60	7.27	7.20	7.24	8.98	7.42	9.11	2.12	11.47	10.58
WEIGHT - MEAN(gm)	0.00	0.00	137.19	149.00	159.85	172.56	188.08	193.27	208.83	219.00	161.14	164.83
- STD. DEV.	0.00	0.00	12.09	16.16	19.64	21.04	28.92	27.96	40.23	26.87	24.88	25.63

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	0	3	20	689	45	40	2	0
% AT STAGE	0.13	0.00	0.38	2.50	86.13	5.63	5.00	0.25	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	399	21	421
%	0.24	94.77	4.99	100.00
% SAMPLE WEIGHT	0.05	28.38	0.07	28.50

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	378	421	1	800
%	47.25	52.63	0.13	100.00
MEAN WEIGHT	159.53	169.60	160.00	164.83
% SAMP. WT.	45.73	54.15	0.12	100.00

TABLE 12 PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 2W - WEST COAST G.C.I.
SAMPLE NUMBERS: 196,240,234,228,208,284,250,339,285,198,
249,251,288,216,239,292,252,328,222,206
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 5/88 - MAR 27/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	29	1391	298	5	9	10	12	25	15	205	1999
% AT AGE	0.00	1.62	77.34	16.61	0.28	0.50	0.56	0.67	1.39	0.84	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.31	190.50	210.36	217.00	234.22	238.60	245.75	247.20	248.53	195.96	195.78
- STD. DEV.	0.00	10.22	9.32	9.91	11.09	8.50	10.01	7.36	8.65	6.96	21.49	16.41
WEIGHT - MEAN(gm)	0.00	70.93	98.45	142.74	158.60	185.11	206.60	220.92	239.12	241.07	112.89	110.78
- STD. DEV.	0.00	17.79	18.87	25.52	22.13	38.38	33.51	37.13	31.22	26.35	50.50	37.55

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	9	4	3	450	1475	55	2	0	1
% AT STAGE	0.45	0.20	0.15	22.51	73.79	2.75	0.10	0.00	0.05

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	227	754	1	982
%	23.12	76.78	0.10	100.00
% SAMPLE WEIGHT	4.23	21.83	0.00	26.06

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1008	982	9	1999
%	50.43	49.12	0.45	100.00
MEAN WEIGHT	103.93	118.29	59.44	110.78
% SAMP. WT.	47.31	52.45	0.24	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 2E - EAST COAST Q.C.I.
SAMPLE NUMBERS: 201,219,214,202,199,233,212,220,200,204, 211,326,213,224,203,210
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/88 - MAR 29/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	59	583	120	79	196	249	23	28	57	206	1600
% AT AGE	0.00	4.23	41.82	8.61	5.67	14.06	17.86	1.65	2.01	4.09	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.19	185.39	203.48	214.48	221.45	227.28	230.87	236.11	237.07	214.58	205.44
- STD. DEV.	0.00	9.82	8.40	8.94	8.84	8.34	9.36	9.36	10.33	8.17	18.72	22.49
WEIGHT - MEAN(gm)	0.00	60.59	88.50	124.41	149.86	165.54	181.66	191.61	206.79	202.26	150.53	132.72
- STD. DEV.	0.00	12.83	14.45	21.22	25.29	22.93	25.48	29.37	37.53	25.70	42.84	48.94

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	7	1	266	1273	48	3	0	0
% AT STAGE	0.13	0.44	0.06	16.63	79.56	3.00	0.19	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	143	641	1	785
%	18.22	81.66	0.13	100.00
% SAMPLE WEIGHT	3.03	24.41	0.00	27.44

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	811	785	4	1600
%	50.69	49.06	0.25	100.00
MEAN WEIGHT	123.84	142.16	79.25	132.72
% SAMP. WT.	47.30	52.55	0.15	100.00

Table 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 3 - NASS
SAMPLE NUMBERS: 306,302,315,320,189,297,321,296,316
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 14/88 - APR 2/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	156	362	64	89	95	19	10	0	98	896
% AT AGE	0.00	0.38	19.55	45.36	8.02	11.15	11.90	2.38	1.25	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	135.00	177.31	189.90	203.42	211.71	217.63	221.26	219.80	0.00	202.73	196.00
- STD. DEV.	0.00	9.85	9.78	9.71	9.08	7.29	8.11	12.61	9.20	0.00	14.99	17.11
WEIGHT - MEAN(gm)	0.00	24.33	75.94	94.63	116.02	134.09	151.68	159.63	147.90	0.00	118.92	107.27
- STD. DEV.	0.00	4.51	15.00	16.91	19.27	19.32	24.26	25.83	29.26	0.00	31.69	32.35

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	0	202	620	58	13	0	0
% AT STAGE	0.00	0.33	0.00	22.54	69.20	6.47	1.45	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	124	267	4	395
%	31.39	67.59	1.01	100.00
% SAMPLE WEIGHT	7.41	18.46	0.02	25.89

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	499	395	2	896
%	55.69	44.08	0.22	100.00
MEAN WEIGHT	101.32	115.20	24.50	107.27
% SAMP. WT.	52.60	47.35	0.05	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 4 - SKEENA
SAMPLE NUMBERS: 322,323,197,307
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 22/88 - APR 2/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	54	142	26	42	46	14	7	1	68	400
% AT AGE	0.00	0.00	16.27	42.77	7.83	12.65	13.86	4.22	2.11	0.30	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	179.56	192.68	204.15	215.33	217.85	217.64	231.14	227.00	206.07	200.84
- STD. DEV.	0.00	0.00	9.02	8.99	8.40	7.43	8.80	6.62	6.64	0.00	17.80	16.94
WEIGHT - MEAN(gm)	0.00	0.00	82.41	100.39	125.50	143.05	155.17	148.57	181.86	186.00	130.28	118.78
- STD. DEV.	0.00	0.00	15.05	16.47	21.54	22.28	24.46	15.49	20.76	0.00	35.81	33.98

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	13	361	26	0	0	0
% AT STAGE	0.00	0.00	0.00	3.25	90.25	6.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	8	190	0	198
%	4.04	95.96	0.00	100.00
% SAMPLE WEIGHT	0.77	25.63	0.00	26.41

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	202	198	0	400
%	50.50	49.50	0.00	100.00
MEAN WEIGHT	112.79	124.90	0.00	118.78
% SAMP. WT.	47.95	52.05	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 5 - GRENVILLE-PRINCIPE
SAMPLE NUMBERS: 319,313,311,318,194,195,312,308,295,303, 301,294,310,317,305,299,309,304,314,300, 298
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 18/88 - APR 7/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	9	701	693	99	108	180	27	25	10	230	2082
% AT AGE	0.00	0.49	37.85	37.42	5.35	5.83	9.72	1.46	1.35	0.54	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.56	173.81	190.20	200.99	210.77	216.73	218.48	224.52	228.50	197.90	190.21
- STD. DEV.	0.00	17.32	9.22	9.47	9.97	8.81	9.35	7.50	10.05	8.51	20.06	18.57
WEIGHT - MEAN(gm)	0.00	50.56	73.00	96.90	115.01	134.50	151.47	150.41	160.28	184.80	112.64	99.80
- STD. DEV.	0.00	19.46	13.81	17.22	22.05	23.60	25.79	25.73	34.17	29.83	38.98	34.00

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	0	201	1796	76	5	2	0
% AT STAGE	0.05	0.05	0.00	9.65	86.26	3.65	0.24	0.10	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	95	887	1	983
%	9.66	90.23	0.10	100.00
% SAMPLE WEIGHT	2.08	24.71	0.00	26.80

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1097	983	2	2082
%	52.69	47.21	0.10	100.00
MEAN WEIGHT	91.95	108.67	41.00	99.80
% SAMP. WT.	48.55	51.41	0.04	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 6 - BUTEDALE
SAMPLE NUMBERS: 286,334,209,229,253,290
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 9/88 - MAR 12/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	340	69	57	34	14	7	13	5	55	598
% AT AGE	0.00	0.74	62.62	12.71	10.50	6.26	2.58	1.29	2.39	0.92	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.25	175.95	194.67	205.65	211.38	219.14	222.71	221.54	233.20	194.42	187.61
- STD. DEV.	0.00	9.14	11.18	10.43	10.49	10.28	8.06	13.51	10.33	10.21	22.22	19.62
WEIGHT - MEAN(gm)	0.00	56.25	81.49	110.83	133.98	144.50	159.43	157.71	165.85	193.80	112.18	101.60
- STD. DEV.	0.00	13.50	19.36	20.99	19.54	21.06	20.59	36.59	30.62	28.70	37.21	35.24

KJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	3	1	214	330	5	36	8	0
% AT STAGE	0.17	0.50	0.17	35.79	55.18	0.84	6.02	1.34	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	143	158	22	323
%	44.27	48.92	6.81	100.00
% SAMPLE WEIGHT	8.32	14.74	0.11	23.17

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	274	323	1	598
%	45.82	54.01	0.17	100.00
MEAN WEIGHT	95.49	106.93	57.00	101.60
% SAMP. WT.	43.06	56.84	0.09	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 7 - BELLA BELLA
SAMPLE NUMBERS: 231,237,358,227,247,293,287,241,235,230,
254,248,242,369,217,218,368,244,353,226,
215,207,245,343,289,221,223,360,236,341,
205,238,291,232
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 1/88 - MAR 29/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	38	2025	355	173	216	51	43	42	42	371	3356
% AT AGE	0.00	1.27	67.84	11.89	5.80	7.24	1.71	1.44	1.41	1.41	0.00	100.00
LENGTH - MEAN(mm)	0.00	154.00	177.58	194.55	207.35	219.11	223.10	224.79	227.05	231.55	197.43	188.10
- STD. DEV.	0.00	12.54	13.85	13.16	10.72	11.61	12.18	13.37	11.79	10.58	24.97	21.92
WEIGHT - MEAN(gm)	0.00	49.92	85.83	117.12	143.89	178.21	191.02	193.95	200.67	215.02	133.09	108.93
- STD. DEV.	0.00	15.36	25.36	29.78	31.25	34.20	38.19	44.43	45.68	39.41	71.14	50.05

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	4	8	9	877	2397	50	10	0	1
% AT STAGE	0.12	0.24	0.27	26.13	71.42	1.49	0.30	0.00	0.03

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	580	1216	6	1802
%	32.19	67.48	0.33	100.00
% SAMPLE WEIGHT	6.57	19.22	0.01	25.79

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1549	1802	5	3356
%	46.16	53.69	0.15	100.00
MEAN WEIGHT	100.14	116.69	37.20	108.93
% SAMP. WT.	42.43	57.52	0.05	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 8 - BELLA COOLA
SAMPLE NUMBERS: 225,344,134,131,246,137,243,129,325,132
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 5/88 - MAR 24/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	22	760	69	52	28	4	4	2	1	58	1000
% AT AGE	0.00	2.34	80.68	7.32	5.52	2.97	0.42	0.42	0.21	0.11	0.00	100.00
LENGTH - MEAN(mm)	0.00	152.91	162.17	183.12	182.73	196.54	202.00	220.00	221.50	225.00	164.34	166.14
- STD. DEV.	0.00	19.59	20.17	17.77	25.14	18.33	14.76	12.57	13.44	0.00	25.99	22.86
WEIGHT - MEAN(gm)	0.00	48.05	59.36	84.12	87.00	108.21	126.50	145.25	157.50	180.00	62.50	64.73
- STD. DEV.	0.00	23.06	25.14	25.69	38.21	34.42	29.49	37.88	27.58	0.00	31.59	30.20

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	4	7	20	431	517	19	2	0	0
% AT STAGE	0.40	0.70	2.00	43.10	51.70	1.90	0.20	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	245	208	1	454
%	53.96	45.81	0.22	100.00
% SAMPLE WEIGHT	10.86	12.31	0.00	23.17

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	541	454	5	1000
%	54.10	45.40	0.50	100.00
MEAN WEIGHT	64.04	65.97	27.40	64.73
% SAMP. WT.	53.52	46.27	0.21	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 9 - RIVERS INLET
SAMPLE NUMBERS: 138,128,130,139
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 22/88 - MAR 24/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	58	263	28	9	12	3	3	0	0	24	400
% AT AGE	0.00	15.43	69.95	7.45	2.39	3.19	0.80	0.80	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	148.41	163.47	181.93	199.56	204.58	221.00	224.00	0.00	0.00	163.92	165.54
- STD. DEV.	0.00	10.49	19.12	20.36	11.11	15.23	13.08	15.72	0.00	0.00	24.59	22.69
WEIGHT - MEAN(gm)	0.00	38.91	58.92	90.11	110.44	130.67	164.33	172.67	0.00	0.00	60.25	63.24
- STD. DEV.	0.00	13.09	28.55	37.24	33.01	40.83	70.71	40.08	0.00	0.00	35.97	36.50

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	4	50	47	132	152	0	12	0	3
% AT STAGE	1.00	12.50	11.75	33.00	38.00	0.00	3.00	0.00	0.75

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	109	75	5	189
%	57.67	39.68	2.65	100.00
% SAMPLE WEIGHT	5.49	14.37	0.03	19.88

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	173	189	38	400
%	43.25	47.25	9.50	100.00
MEAN WEIGHT	62.25	70.70	30.58	63.24
% SAMP. WT.	42.58	52.83	4.59	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 10 - SMITH INLET
SAMPLE NUMBERS: 133,136,135
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 21/88 - MAR 25/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	187	59	16	8	2	1	1	0	22	300
% AT AGE	0.00	1.44	67.27	21.22	5.76	2.88	0.72	0.36	0.36	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	151.25	164.19	181.07	190.19	195.75	208.50	210.00	236.00	0.00	174.77	171.03
- STD. DEV.	0.00	14.59	13.95	11.90	19.05	12.61	10.61	0.00	0.00	0.00	22.05	18.09
WEIGHT - MEAN(gm)	0.00	43.25	60.47	81.56	103.25	105.13	134.50	106.00	177.00	0.00	77.64	70.15
- STD. DEV.	0.00	12.31	17.89	20.89	38.28	22.36	27.58	0.00	0.00	0.00	32.37	26.57

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	51	247	0	1	0	0
% AT STAGE	0.00	0.00	0.33	17.00	82.33	0.00	0.33	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	21	124	0	145
%	14.48	85.52	0.00	100.00
% SAMPLE WEIGHT	2.60	22.72	0.00	25.33

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	155	145	0	300
%	51.67	48.33	0.00	100.00
MEAN WEIGHT	65.85	74.75	0.00	70.15
% SAMP. WT.	48.50	51.50	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 12 - ALERT BAY
SAMPLE NUMBERS: 108,117
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 16/88 - MAR 17/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	14	130	6	5	20	1	1	0	1	22	200
% AT AGE	0.00	7.87	73.03	3.37	2.81	11.24	0.56	0.56	0.00	0.56	0.00	100.00
LENGTH - MEAN(mm)	0.00	146.57	149.05	143.83	169.20	178.10	191.00	176.00	0.00	200.00	150.64	152.90
- STD. DEV.	0.00	9.00	10.95	23.22	17.06	15.28	0.00	0.00	0.00	0.00	20.65	16.64
WEIGHT - MEAN(gm)	0.00	36.36	41.22	40.33	69.00	77.40	96.00	70.00	0.00	104.00	45.09	46.32
- STD. DEV.	0.00	7.02	11.96	21.13	25.68	23.10	0.00	0.00	0.00	0.00	22.31	19.78

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	5	23	14	28	117	2	11	0	0
% AT STAGE	2.50	11.50	7.00	14.00	58.50	1.00	5.50	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	36	46	7	89
%	40.45	51.69	7.87	100.00
% SAMPLE WEIGHT	3.47	15.07	0.16	18.69

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	98	89	13	200
%	49.00	44.50	6.50	100.00
MEAN WEIGHT	43.98	50.25	37.08	46.32
% SAMP. WT.	46.52	48.27	5.20	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 13 - QUATHIASKI
SAMPLE NUMBERS: 124,113,338
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 25/88 - MAR 12/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	73	147	23	15	6	1	0	0	0	35	300
% AT AGE	0.00	27.55	55.47	8.68	5.66	2.26	0.38	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	149.00	173.82	191.13	197.73	203.00	217.00	0.00	0.00	0.00	170.31	170.62
- STD. DEV.	0.00	8.72	11.74	10.71	10.40	8.76	0.00	0.00	0.00	0.00	23.29	19.46
WEIGHT - MEAN(gm)	0.00	40.41	66.46	97.65	104.93	121.00	159.00	0.00	0.00	0.00	68.63	66.09
- STD. DEV.	0.00	7.08	16.92	22.27	17.67	15.48	0.00	0.00	0.00	0.00	33.26	27.13

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	19	46	28	185	16	0	6	0	0
% AT STAGE	6.33	15.33	9.33	61.67	5.33	0.00	2.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	122	3	0	125
%	97.60	2.40	0.00	100.00
% SAMPLE WEIGHT	13.45	0.70	0.00	14.15

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	146	125	29	300
%	48.67	41.67	9.67	100.00
MEAN WEIGHT	68.89	69.06	39.17	66.09
% SAMP. WT.	50.73	43.54	5.73	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 14 - COMOX
SAMPLE NUMBERS: 49, 41, 44, 36, 33, 26, 46, 17, 53, 8, 9,161, 24, 35, 98, 39,158, 31,156,335, 42,106, 34,142, 23, 29
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88 - MAR 10/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	70	1282	406	390	93	26	5	2	0	324	2598
% AT AGE	0.00	3.08	56.38	17.85	17.15	4.09	1.14	0.22	0.09	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.93	189.95	201.95	209.36	214.30	221.23	226.80	234.50	0.00	196.99	196.42
- STD. DEV.	0.00	13.66	11.76	10.21	9.36	11.10	8.04	11.23	10.61	0.00	15.16	14.96
WEIGHT - MEAN(gm)	0.00	64.86	92.98	115.83	132.57	145.34	156.23	175.60	199.00	0.00	107.26	106.26
- STD. DEV.	0.00	16.98	20.51	20.98	22.54	28.77	21.43	27.37	35.36	0.00	29.78	29.21

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	11	17	974	1465	57	73	1	0
% AT STAGE	0.00	0.42	0.65	37.49	56.39	2.19	2.81	0.04	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	539	799	32	1370
%	39.34	58.32	2.34	100.00
% SAMPLE WEIGHT	7.45	16.22	0.03	23.70

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1222	1370	6	2598
%	47.04	52.73	0.23	100.00
MEAN WEIGHT	101.62	110.61	59.67	106.26
% SAMP. WT.	44.98	54.89	0.13	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 15 - WESTVIEW
SAMPLE NUMBERS: 157,162,336, 88,327,332,110,160,337,342
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88 - MAR 17/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	16	480	123	169	62	13	5	0	0	132	1000
% AT AGE	0.00	1.84	55.30	14.17	19.47	7.14	1.50	0.58	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.56	181.04	197.66	201.79	207.89	217.62	219.00	0.00	0.00	194.86	190.53
- STD. DEV.	0.00	11.30	9.87	9.00	9.59	7.63	5.24	5.34	0.00	0.00	16.43	15.09
WEIGHT - MEAN(gm)	0.00	60.56	75.31	102.32	110.47	123.35	139.69	141.80	0.00	0.00	97.89	91.47
- STD. DEV.	0.00	11.27	14.56	17.94	19.40	18.01	15.46	11.12	0.00	0.00	24.22	25.18

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	8	2	637	321	30	0	0	0
% AT STAGE	0.20	0.80	0.20	63.70	32.10	3.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	396	99	0	495
%	80.00	20.00	0.00	100.00
% SAMPLE WEIGHT	15.79	4.03	0.00	19.83

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	502	495	3	1000
%	50.20	49.50	0.30	100.00
MEAN WEIGHT	87.48	95.72	57.67	91.47
% SAMP. WT.	48.01	51.80	0.19	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 16 - PENDER HARBOUR
SAMPLE NUMBERS: 154
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 1/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	41	14	23	7	1	1	0	0	10	100
% AT AGE	0.00	3.33	45.56	15.56	25.56	7.78	1.11	1.11	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.00	183.07	196.50	203.22	214.29	204.00	225.00	0.00	0.00	193.20	192.69
- STD. DEV.	0.00	15.62	9.10	11.82	8.33	10.81	0.00	0.00	0.00	0.00	8.93	15.23
WEIGHT - MEAN(gm)	0.00	58.67	81.37	100.00	113.57	145.43	135.00	159.00	0.00	0.00	101.30	98.49
- STD. DEV.	0.00	13.58	15.63	14.93	17.05	36.06	0.00	0.00	0.00	0.00	36.18	28.70

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	86	13	0	0	0	0
% AT STAGE	0.00	1.00	0.00	86.00	13.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	44	1	0	45
%	97.78	2.22	0.00	100.00
% SAMPLE WEIGHT	19.49	1.04	0.00	20.53

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	55	45	0	100
%	55.00	45.00	0.00	100.00
MEAN WEIGHT	95.47	102.18	0.00	98.49
% SAMP. WT.	53.32	46.68	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 17 - NANAIMO
SAMPLE NUMBERS: 20, 91, 97, 12,103, 15,345, 30,331, 25, 22, 96,126, 27,105, 5, 11
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 23/88 - MAR 18/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	144	1048	151	72	13	3	0	1	0	268	1700
% AT AGE	0.00	10.06	73.18	10.54	5.03	0.91	0.21	0.00	0.07	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.47	186.21	196.77	206.01	218.77	229.00	0.00	244.00	0.00	188.32	187.09
- STD. DEV.	0.00	13.45	12.76	13.37	12.06	9.76	4.58	0.00	0.00	0.00	14.57	15.52
WEIGHT - MEAN(gm)	0.00	60.31	85.52	104.43	122.99	145.69	145.67	0.00	208.00	0.00	89.63	87.94
- STD. DEV.	0.00	15.88	19.22	22.38	26.57	25.11	20.11	0.00	0.00	0.00	23.49	24.47

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	8	29	6	824	689	22	120	2	0
% AT STAGE	0.47	1.71	0.35	48.47	40.53	1.29	7.06	0.12	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	468	352	61	881
%	53.12	39.95	6.92	100.00
% SAMPLE WEIGHT	9.06	10.98	0.10	20.13

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	810	881	9	1700
%	47.65	51.82	0.53	100.00
MEAN WEIGHT	84.19	91.87	39.89	87.94
% SAMP. WT.	45.62	54.14	0.24	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 18 - COWICHAN
SAMPLE NUMBERS: 13, 21
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 27/88 - FEB 28/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	11	130	19	19	1	3	0	0	0	17	200
% AT AGE	0.00	6.01	71.04	10.38	10.38	0.55	1.64	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	173.73	188.25	199.16	207.95	225.00	233.00	0.00	0.00	0.00	194.47	191.74
- STD. DEV.	0.00	5.16	9.72	10.40	9.27	0.00	10.44	0.00	0.00	0.00	9.29	13.28
WEIGHT - MEAN(gm)	0.00	67.00	94.42	108.79	132.05	186.00	183.67	0.00	0.00	0.00	104.12	100.47
- STD. DEV.	0.00	10.70	16.33	14.49	17.89	0.00	12.66	0.00	0.00	0.00	18.15	24.18

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	2	119	50	22	3	1	0
% AT STAGE	0.00	1.50	1.00	59.50	25.00	11.00	1.50	0.50	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	75	26	1	102
%	73.53	25.49	0.98	100.00
% SAMPLE WEIGHT	14.08	5.69	0.14	19.92

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	97	102	1	200
%	48.50	51.00	0.50	100.00
MEAN WEIGHT	96.80	104.21	76.00	100.47
% SAMP. WT.	46.73	52.89	0.38	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 23 - BARKLEY SOUND
SAMPLE NUMBERS: 56, 32,104, 43, 51, 58,140,340, 55,329,
57, 99,109, 50, 10, 48, 1, 47, 37, 54,
45, 40, 52,330
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/88 - MAR 16/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	49	1450	156	251	103	38	9	7	4	333	2400
% AT AGE	0.00	2.37	70.15	7.55	12.14	4.98	1.84	0.44	0.34	0.19	0.00	100.00
LENGTH - MEAN(mm)	0.00	173.61	193.36	205.96	217.88	224.89	232.63	243.78	236.43	245.00	200.09	199.65
- STD. DEV.	0.00	15.10	10.21	10.07	9.58	8.45	10.53	6.85	6.75	11.60	15.50	16.02
WEIGHT - MEAN(gm)	0.00	74.53	104.40	128.36	158.51	175.50	192.63	208.78	198.00	208.00	119.08	118.33
- STD. DEV.	0.00	21.50	19.13	22.36	24.21	28.55	32.15	14.77	22.31	23.05	32.46	33.84

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	3	4	755	1609	25	1	1	0
% AT STAGE	0.08	0.13	0.17	31.46	67.04	1.04	0.04	0.04	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	396	826	1	1223
%	32.38	67.54	0.08	100.00
% SAMPLE WEIGHT	6.55	19.95	0.00	26.51

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1175	1223	2	2400
%	48.96	50.96	0.08	100.00
MEAN WEIGHT	111.61	124.76	132.00	118.33
% SAMP. WT.	46.18	53.73	0.09	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 24 - CLAYOQUOT SOUND
SAMPLE NUMBERS: 118,125,141,149,119, 90, 16,120, 18, 28,
107,115,143,122,151,351,352,114,147,112,
324, 38,144,123,100,148, 14,111,145
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88 - MAR 18/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	91	1261	179	440	288	108	27	15	7	447	2863
% AT AGE	0.00	3.77	52.19	7.41	18.21	11.92	4.47	1.12	0.62	0.29	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.64	192.48	207.78	219.30	225.36	233.56	237.22	240.80	244.57	209.71	205.12
- STD. DEV.	0.00	12.70	10.23	9.13	9.15	8.28	7.53	7.24	8.39	5.09	19.58	19.51
WEIGHT - MEAN(gm)	0.00	64.13	103.05	132.84	162.79	179.30	199.18	202.33	211.13	228.14	141.64	131.98
- STD. DEV.	0.00	14.80	20.17	21.59	23.51	24.82	24.65	23.86	33.68	23.81	43.82	43.23

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	16	28	406	2251	80	79	0	1
% AT STAGE	0.07	0.56	0.98	14.18	78.62	2.79	2.76	0.00	0.03

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	213	1220	35	1468
%	14.51	83.11	2.38	100.00
% SAMPLE WEIGHT	2.66	26.17	0.02	28.85

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1392	1468	3	2863
%	48.62	51.27	0.10	100.00
MEAN WEIGHT	124.27	139.45	60.00	131.98
% SAMP. WT.	45.78	54.18	0.05	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 25 - NOOTKA SOUND
SAMPLE NUMBERS: 333, 94,163,116,127,101, 93, 92,121, 7, 89,150, 95
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 23/88 - MAR 4/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	36	720	111	126	159	11	4	2	0	131	1300
% AT AGE	0.00	3.08	61.59	9.50	10.78	13.60	0.94	0.34	0.17	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.81	192.34	207.55	217.88	225.13	228.00	228.75	233.50	0.00	201.84	200.88
- STD. DEV.	0.00	13.20	9.35	9.04	8.18	8.23	8.16	6.40	6.36	0.00	14.82	16.79
WEIGHT - MEAN(gm)	0.00	68.33	103.00	134.07	161.46	183.61	184.55	202.75	196.50	0.00	123.94	123.47
- STD. DEV.	0.00	18.95	17.42	22.31	24.37	28.06	26.58	36.60	36.06	0.00	32.90	38.19

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	2	490	769	35	2	0	0
% AT STAGE	0.00	0.15	0.15	37.69	59.15	2.69	0.15	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	366	374	0	740
%	49.46	50.54	0.00	100.00
% SAMPLE WEIGHT	10.13	15.91	0.00	26.04

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	559	740	1	1300
%	43.00	56.92	0.08	100.00
MEAN WEIGHT	118.71	127.12	80.00	123.47
% SAMP. WT.	41.34	58.61	0.05	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 26 - KYUQUOT SOUND
SAMPLE NUMBERS: 19
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 29/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	91	1	1	0	0	0	0	0	3	100
% AT AGE	0.00	4.12	93.81	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.75	185.58	200.00	221.00	0.00	0.00	0.00	0.00	0.00	190.67	185.68
- STD. DEV.	0.00	8.73	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.26	9.74
WEIGHT - MEAN(gm)	0.00	66.25	88.67	103.00	150.00	0.00	0.00	0.00	0.00	0.00	92.67	88.65
- STD. DEV.	0.00	13.30	12.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.69	14.78

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	9	91	0	0	0
% AT STAGE	0.00	0.00	0.00	0.00	9.00	91.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	86	0	86
%	0.00	100.00	0.00	100.00
% SAMPLE WEIGHT	0.00	19.85	0.00	19.85

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	14	86	0	100
%	14.00	86.00	0.00	100.00
MEAN WEIGHT	78.93	90.23	0.00	88.65
% SAMP. WT.	12.46	87.54	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 27 - QUATSINO SOUND
SAMPLE NUMBERS: 4, 6, 2, 3
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 27/88 - MAR 1/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	232	41	23	57	6	3	0	1	29	400
% AT AGE	0.00	2.16	62.53	11.05	6.20	15.36	1.62	0.81	0.00	0.27	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.75	191.44	209.34	216.96	224.75	225.17	229.00	0.00	239.00	203.76	200.76
- STD. DEV.	0.00	9.90	9.33	11.02	8.74	8.01	12.67	2.65	0.00	0.00	16.76	17.32
WEIGHT - MEAN(gm)	0.00	62.50	100.22	136.78	153.70	178.19	189.67	186.33	0.00	262.00	128.24	121.82
- STD. DEV.	0.00	14.86	18.45	24.11	18.34	21.39	45.47	16.50	0.00	0.00	35.47	38.57

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	0	0	174	221	4	0	0	0
% AT STAGE	0.25	0.00	0.00	43.50	55.25	1.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	107	105	0	212
%	50.47	49.53	0.00	100.00
% SAMPLE WEIGHT	11.36	14.11	0.00	25.48

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	187	212	1	400
%	46.75	53.00	0.25	100.00
MEAN WEIGHT	113.32	129.10	170.00	121.82
% SAMP. WT.	43.49	56.16	0.35	100.00

TABLE 13 PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 2 - PORT LOUIS
SAMPLE NUMBERS: 250,285,288,328
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 5/88 - MAR 24/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	315	34	1	1	2	0	1	2	38	399
% AT AGE	0.00	1.39	87.26	9.42	0.28	0.28	0.55	0.00	0.28	0.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	178.00	191.78	208.38	226.00	221.00	244.00	0.00	258.00	255.00	196.42	194.37
- STD. DEV.	0.00	10.27	8.12	12.43	0.00	0.00	11.31	0.00	0.00	5.66	21.56	13.44
WEIGHT - MEAN(gm)	0.00	74.20	100.94	140.18	174.00	142.00	233.50	0.00	290.00	242.00	111.53	107.09
- STD. DEV.	0.00	19.01	17.02	32.56	0.00	0.00	44.55	0.00	0.00	8.49	50.06	31.10

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	65	329	3	1	0	0
% AT STAGE	0.00	0.25	0.00	16.29	82.46	0.75	0.25	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	23	171	0	194
%	11.86	88.14	0.00	100.00
% SAMPLE WEIGHT	1.97	24.96	0.00	26.93

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	205	194	0	399
%	51.38	48.62	0.00	100.00
MEAN WEIGHT	97.71	117.00	0.00	107.09
% SAMP. WT.	46.88	53.12	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 3 - RENNELL SOUND
SAMPLE NUMBERS: 239,206,249,339,240,234,228,284
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/88 - MAR 26/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	477	206	3	1	2	3	11	5	86	800
% AT AGE	0.00	0.84	66.81	28.85	0.42	0.14	0.28	0.42	1.54	0.70	0.00	100.00
LENGTH - MEAN(mm)	0.00	183.33	192.54	210.82	214.00	239.00	241.00	249.00	247.09	249.00	198.01	199.34
- STD. DEV.	0.00	9.95	9.80	9.46	13.86	0.00	11.31	5.57	10.62	8.19	20.12	15.92
WEIGHT - MEAN(gm)	0.00	92.00	105.01	144.61	153.00	214.00	215.50	237.00	234.91	260.40	119.33	120.49
- STD. DEV.	0.00	14.21	20.16	24.54	28.51	0.00	9.19	63.51	30.57	35.28	48.53	37.00

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	2	184	590	23	1	0	0
% AT STAGE	0.00	0.00	0.25	23.00	73.75	2.88	0.13	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	74	309	1	384
%	19.27	80.47	0.26	100.00
% SAMPLE WEIGHT	4.06	22.66	0.01	26.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	416	384	0	800
%	52.00	48.00	0.00	100.00
MEAN WEIGHT	112.30	129.37	0.00	120.49
% SAMP. WT.	48.47	51.53	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 5 - ENGLEFIELD BAY
SAMPLE NUMBERS: 208,251,216,292,252
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 12/88 - MAR 27/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	16	327	52	0	6	6	9	13	8	63	500
% AT AGE	0.00	3.66	74.83	11.90	0.00	1.37	1.37	2.06	2.97	1.83	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.94	189.19	210.00	0.00	234.67	236.00	244.67	246.46	246.63	195.22	196.05
- STD. DEV.	0.00	8.27	9.82	10.39	0.00	8.31	10.35	7.84	6.74	6.14	24.41	20.32
WEIGHT - MEAN(gm)	0.00	61.63	93.35	137.92	0.00	183.00	194.67	215.56	238.77	228.75	110.14	109.53
- STD. DEV.	0.00	11.90	18.02	24.84	0.00	40.85	33.40	27.53	30.63	15.05	56.18	45.66

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	9	3	1	111	347	28	0	0	1
% AT STAGE	1.80	0.60	0.20	22.20	69.40	5.60	0.00	0.00	0.20

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	84	168	0	252
%	33.33	66.67	0.00	100.00
% SAMPLE WEIGHT	5.67	19.89	0.00	25.56

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	239	252	9	500
%	47.80	50.40	1.80	100.00
MEAN WEIGHT	104.86	115.74	59.44	109.53
% SAMP. WT.	45.76	53.26	0.98	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 6 - LOUSCOONE INLET
SAMPLE NUMBERS: 222,198,196
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR [illegible]88 - MAR 19/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	272	6	1	1	0	0	0	0	18	300
% AT AGE	0.00	0.71	96.45	2.13	0.35	0.35	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	179.50	187.01	209.00	217.00	240.00	0.00	0.00	0.00	0.00	187.72	187.72
- STD. DEV.	0.00	14.85	7.80	3.63	0.00	0.00	0.00	0.00	0.00	0.00	15.45	9.58
WEIGHT - MEAN(gm)	0.00	74.00	90.20	135.17	160.00	212.00	0.00	0.00	0.00	0.00	94.61	91.89
- STD. DEV.	0.00	12.73	14.22	14.44	0.00	0.00	0.00	0.00	0.00	0.00	35.65	19.13

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	90	209	1	0	0	0
% AT STAGE	0.00	0.00	0.00	30.00	69.67	0.33	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	46	106	0	152
%	30.26	69.74	0.00	100.00
% SAMPLE WEIGHT	5.45	18.01	0.00	23.45

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	148	152	0	300
%	49.33	50.67	0.00	100.00
MEAN WEIGHT	87.31	96.16	0.00	91.89
% SAMP. WT.	46.98	53.02	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 21 - JUAN PEREZ SOUND
SAMPLE NUMBERS: 213,203,211,220,200,214
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/88 - MAR 23/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	21	268	41	26	62	80	4	11	16	71	600
% AT AGE	0.00	3.97	50.66	7.75	4.91	11.72	15.12	0.76	2.08	3.02	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.71	184.99	202.15	216.85	221.48	226.90	235.50	235.55	237.38	213.46	202.22
- STD. DEV.	0.00	10.64	8.73	8.93	9.86	9.38	9.56	5.97	7.24	9.50	18.95	22.37
WEIGHT - MEAN(gm)	0.00	59.00	86.45	115.98	147.54	162.35	175.85	190.00	196.27	199.50	142.75	122.30
- STD. DEV.	0.00	13.54	14.51	16.64	25.44	24.34	23.81	13.95	23.48	26.59	41.56	46.31

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	7	0	205	367	18	1	0	0
% AT STAGE	0.33	1.17	0.00	34.17	61.17	3.00	0.17	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	111	166	0	277
%	40.07	59.93	0.00	100.00
% SAMPLE WEIGHT	7.36	18.56	0.00	25.92

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	319	277	4	600
%	53.17	46.17	0.67	100.00
MEAN WEIGHT	115.49	130.76	79.25	122.30
% SAMP. WT.	50.21	49.36	0.43	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 24 - LASKEEK BAY
SAMPLE NUMBERS: 202,233,224,326
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 26/88 - MAR 29/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	31	95	51	36	58	50	9	8	3	59	400
% AT AGE	0.00	9.09	27.86	14.96	10.56	17.01	14.66	2.64	2.35	0.88	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.65	185.89	205.39	213.81	219.36	223.94	229.89	241.38	232.67	214.03	205.15
- STD. DEV.	0.00	9.07	8.68	8.08	7.12	6.61	8.55	10.52	12.57	2.52	18.41	22.05
WEIGHT - MEAN(gm)	0.00	60.00	93.39	134.82	159.31	168.00	184.12	202.11	234.38	192.00	158.53	139.79
- STD. DEV.	0.00	12.58	15.99	20.28	22.04	23.57	25.20	31.05	54.36	26.85	47.22	49.69

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	6	376	17	0	0	0
% AT STAGE	0.00	0.00	0.25	1.50	94.00	4.25	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	2	216	0	218
%	0.92	99.08	0.00	100.00
% SAMPLE WEIGHT	0.25	29.19	0.00	29.45

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	182	218	0	400
%	45.50	54.50	0.00	100.00
MEAN WEIGHT	130.10	147.88	0.00	139.79
% SAMP. WT.	42.35	57.65	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 25 - SKINCUTTLE INLET
SAMPLE NUMBERS: 210,199,219,201,212,204
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 7/88 - MAR 27/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	7	220	28	17	76	119	10	9	38	76	600
% AT AGE	0.00	1.34	41.98	5.34	3.24	14.50	22.71	1.91	1.72	7.25	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.86	185.67	201.93	212.29	223.01	228.94	229.90	232.11	237.29	216.04	208.86
- STD. DEV.	0.00	7.10	7.84	10.04	10.12	8.38	9.21	9.61	10.48	7.90	18.90	22.45
WEIGHT - MEAN(gm)	0.00	68.00	88.87	117.79	133.41	166.25	184.54	182.80	195.11	204.24	151.57	138.42
- STD. DEV.	0.00	10.66	13.13	21.30	23.39	21.19	26.23	31.44	20.33	25.66	39.65	49.27

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	55	530	13	2	0	0
% AT STAGE	0.00	0.00	0.00	9.17	88.33	2.17	0.33	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	30	259	1	290
%	10.34	89.31	0.34	100.00
% SAMPLE WEIGHT	1.46	25.74	0.01	27.21

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	310	290	0	600
%	51.67	48.33	0.00	100.00
MEAN WEIGHT	128.76	148.75	0.00	138.42
% SAMP. WT.	48.06	51.94	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 32 - PORTLAND INLET
SAMPLE NUMBERS: 296
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 15/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	13	44	10	15	4	1	0	0	13	100
% AT AGE	0.00	0.00	14.94	50.57	11.49	17.24	4.60	1.15	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	177.62	190.80	205.50	213.73	221.25	208.00	0.00	0.00	203.00	196.97
- STD. DEV.	0.00	0.00	9.72	9.36	8.02	5.06	13.67	0.00	0.00	0.00	12.00	15.10
WEIGHT - MEAN(gm)	0.00	0.00	75.62	96.18	122.10	134.80	160.25	121.00	0.00	0.00	117.31	107.45
- STD. DEV.	0.00	0.00	15.63	16.93	21.09	14.21	42.03	0.00	0.00	0.00	26.21	28.49

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	51	45	4	0	0	0
% AT STAGE	0.00	0.00	0.00	51.00	45.00	4.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	INMATURE	MATURE	SPENT	TOTAL
NO.	31	19	0	50
%	62.00	38.00	0.00	100.00
% SAMPLE WEIGHT	12.96	11.53	0.00	24.49

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	50	50	0	100
%	50.00	50.00	0.00	100.00
MEAN WEIGHT	104.22	110.68	0.00	107.45
% SAMP. WT.	48.50	51.50	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 33 - PORT SIMPSON
SAMPLE NUMBERS: 321,316,297,306,320,302,315,189
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 14/88 - APR 2/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	143	318	54	74	91	18	10	0	85	796
% AT AGE	0.00	0.42	20.11	44.73	7.59	10.41	12.80	2.53	1.41	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	135.00	177.29	189.78	203.04	211.30	217.47	222.[illegible]	219.80	0.00	202.69	195.88
- STD. DEV.	0.00	9.85	9.32	9.77	9.28	7.63	7.87	12.55	9.20	0.00	15.45	17.35
WEIGHT - MEAN(gm)	0.00	24.33	75.97	94.42	114.89	133.95	151.31	161.78	147.90	0.00	119.16	107.24
- STD. DEV.	0.00	4.51	15.00	16.92	18.91	20.28	23.51	24.78	29.26	0.00	32.58	32.82

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	0	151	575	54	13	0	0
% AT STAGE	0.00	0.38	0.00	18.97	72.24	6.78	1.63	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	93	248	4	345
%	26.96	71.88	1.16	100.00
% SAMPLE WEIGHT	6.64	19.42	0.02	26.08

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	449	345	2	796
%	56.41	43.34	0.25	100.00
MEAN WEIGHT	100.99	115.86	24.50	107.24
% SAMP. WT.	53.12	46.82	0.06	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 42 - AREA 4 NORTH
SAMPLE NUMBERS: 323,197,307,322
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 22/88 - APR 2/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	54	142	26	42	46	14	7	1	68	400
% AT AGE	0.00	0.00	16.27	42.77	7.83	12.65	13.86	4.22	2.11	0.30	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	179.56	192.68	204.15	215.33	217.85	217.64	231.14	227.00	206.07	200.84
- STD. DEV.	0.00	0.00	9.02	8.99	8.40	7.43	8.80	6.62	6.64	0.00	17.80	16.94
WEIGHT - MEAN(gm)	0.00	0.00	82.41	100.39	125.50	143.05	155.17	148.57	181.86	186.00	130.28	118.78
- STD. DEV.	0.00	0.00	15.05	16.47	21.54	22.28	24.46	15.49	20.76	0.00	35.81	33.98

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	13	361	26	0	0	0
% AT STAGE	0.00	0.00	0.00	3.25	90.25	6.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	8	190	0	198
%	4.04	95.96	0.00	100.00
% SAMPLE WEIGHT	0.77	25.63	0.00	26.41

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	202	198	0	400
%	50.50	49.50	0.00	100.00
MEAN WEIGHT	112.79	124.90	0.00	118.78
% SAMP. WT.	47.95	52.05	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 52 - KITKATLA INLET
SAMPLE NUMBERS: 310,317,305,299,309,304,314,300,298,319, 313,311,318,194,195,312,301,308,295,303, 294
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 18/88 - APR 7/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	9	701	693	99	108	180	27	25	10	230	2082
% AT AGE	0.00	0.49	37.85	37.42	5.35	5.83	9.72	1.46	1.35	0.54	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.56	173.81	190.20	200.99	210.77	216.73	218.48	224.52	228.50	197.90	190.21
- STD. DEV.	0.00	17.32	9.22	9.47	9.97	8.81	9.35	7.50	10.05	8.51	20.06	18.57
WEIGHT - MEAN(gm)	0.00	50.56	73.00	96.90	115.01	134.50	151.47	150.41	160.28	184.80	112.64	99.80
- STD. DEV.	0.00	19.46	13.81	17.22	22.05	23.60	25.79	25.73	34.17	29.83	38.98	34.00

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	0	201	1796	76	5	2	0
% AT STAGE	0.05	0.05	0.00	9.65	86.26	3.65	0.24	0.10	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	95	887	1	983
%	9.66	90.23	0.10	100.00
% SAMPLE WEIGHT	2.08	24.71	0.00	26.80

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1097	983	2	2082
%	52.69	47.21	0.10	100.00
MEAN WEIGHT	91.95	108.67	41.00	99.80
% SAMP. WT.	48.55	51.41	0.04	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 67 - LAREDO SOUND
SAMPLE NUMBERS: 334,209,229,253,290,286
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 9/88 - MAR 12/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	340	69	57	34	14	7	13	5	55	598
% AT AGE	0.00	0.74	62.62	12.71	10.50	6.26	2.58	1.29	2.39	0.92	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.25	175.95	194.67	205.65	211.38	219.14	222.71	221.54	233.20	194.42	187.61
- STD. DEV.	0.00	9.14	11.18	10.43	10.49	10.28	8.06	13.51	10.33	10.21	22.22	19.62
WEIGHT - MEAN(gm)	0.00	56.25	81.49	110.83	133.98	144.50	159.43	157.71	165.85	193.80	112.18	101.60
- STD. DEV.	0.00	13.50	19.36	20.99	19.54	21.06	20.59	36.59	30.62	28.70	37.21	35.24

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	3	1	214	330	5	36	8	0
% AT STAGE	0.17	0.50	0.17	35.79	55.18	0.84	6.02	1.34	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	143	158	22	323
%	44.27	48.92	6.81	100.00
% SAMPLE WEIGHT	8.32	14.74	0.11	23.17

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	274	323	1	598
%	45.82	54.01	0.17	100.00
MEAN WEIGHT	95.49	106.93	57.00	101.60
% SAMP. WT.	43.06	56.84	0.09	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 72 - POWELL ANCHORAGE
SAMPLE NUMBERS: 207,289,223,236,205,238,291,227,293,230
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 9/88 - MAR 26/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	565	100	56	74	22	14	15	19	125	998
% AT AGE	0.00	0.92	64.72	11.45	6.41	8.48	2.52	1.60	1.72	2.18	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.00	177.53	196.39	207.25	217.64	223.77	223.07	230.07	228.89	196.94	189.77
- STD. DEV.	0.00	19.09	15.16	14.45	11.67	11.12	12.99	15.94	12.22	9.79	25.51	23.12
WEIGHT - MEAN(gm)	0.00	55.00	86.62	122.21	144.89	174.45	188.95	186.43	215.27	207.63	131.31	113.20
- STD. DEV.	0.00	24.14	27.28	33.24	32.22	31.70	40.13	47.47	42.17	35.02	60.27	50.67

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	1	176	789	21	8	0	1
% AT STAGE	0.10	0.10	0.10	17.64	79.06	2.10	0.80	0.00	0.10

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	129	408	5	542
%	23.80	75.28	0.92	100.00
% SAMPLE WEIGHT	5.52	21.01	0.01	26.54

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	454	542	2	998
%	45.49	54.31	0.20	100.00
MEAN WEIGHT	104.65	120.68	30.50	113.20
% SAMP. WT.	42.05	57.89	0.05	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 73 - BELLA BELLA
SAMPLE NUMBERS: 358
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 3/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	11	67	14	0	0	1	0	0	0	7	100
% AT AGE	0.00	11.83	72.04	15.05	0.00	0.00	1.08	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	147.55	161.91	181.29	0.00	0.00	193.00	0.00	0.00	0.00	155.57	162.91
- STD. DEV.	0.00	5.41	8.98	8.82	0.00	0.00	0.00	0.00	0.00	0.00	12.18	12.79
WEIGHT - MEAN(gm)	0.00	41.82	57.52	86.36	0.00	0.00	93.00	0.00	0.00	0.00	50.29	59.68
- STD. DEV.	0.00	5.98	12.23	15.81	0.00	0.00	0.00	0.00	0.00	0.00	10.03	17.29

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	3	5	77	12	1	0	0	0
% AT STAGE	2.00	3.00	5.00	77.00	12.00	1.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	39	2	0	41
%	95.12	4.88	0.00	100.00
% SAMPLE WEIGHT	15.58	1.39	0.00	16.97

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	57	41	2	100
%	57.00	41.00	2.00	100.00
MEAN WEIGHT	57.84	63.39	36.00	59.68
% SAMP. WT.	55.24	43.55	1.21	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 74 - THOMPSON BAY
SAMPLE NUMBERS: 247,287,241,235,237,254,248,242,369,244, 217,218,368,232,341,360,221,245,343,215, 353
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 1/88 - MAR 29/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	19	1223	230	113	138	28	27	26	22	232	2058
% AT AGE	0.00	1.04	66.98	12.60	6.19	7.56	1.53	1.48	1.42	1.20	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.63	179.36	194.97	207.58	219.99	223.64	227.37	226.27	235.18	198.97	189.79
- STD. DEV.	0.00	11.23	13.09	12.18	10.41	11.95	10.45	10.58	10.65	8.63	24.08	21.08
WEIGHT - MEAN(gm)	0.00	52.47	89.02	118.12	144.22	180.91	196.14	203.41	196.12	226.45	137.13	112.33
- STD. DEV.	0.00	13.41	24.43	27.38	31.15	35.54	32.60	38.43	43.27	34.75	76.71	50.38

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	1	531	1494	28	2	0	0
% AT STAGE	0.05	0.05	0.05	25.80	72.59	1.36	0.10	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	362	763	1	1126
%	32.15	67.76	0.09	100.00
% SAMPLE WEIGHT	6.68	19.03	0.00	25.71

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	931	1126	1	2058
%	45.24	54.71	0.05	100.00
MEAN WEIGHT	103.50	119.68	53.00	112.33
% SAMP. WT.	41.68	58.30	0.02	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 77 - MILBANKE SOUND
SAMPLE NUMBERS: 226,231
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 11/88 - MAR 15/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	170	11	4	4	0	2	1	1	7	200
% AT AGE	0.00	0.00	88.08	5.70	2.07	2.07	0.00	1.04	0.52	0.52	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	171.05	185.82	202.00	215.75	0.00	202.00	202.00	202.00	197.00	174.90
- STD. DEV.	0.00	0.00	9.88	13.94	2.45	4.35	0.00	5.66	0.00	0.00	19.99	14.31
WEIGHT - MEAN(gm)	0.00	0.00	71.41	89.18	120.50	156.75	0.00	119.00	100.00	104.00	113.57	77.29
- STD. DEV.	0.00	0.00	15.66	22.46	1.91	16.56	0.00	28.28	0.00	0.00	34.83	23.32

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	2	93	102	0	0	0	0
% AT STAGE	0.00	1.50	1.00	46.50	51.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	50	43	0	93
%	53.76	46.24	0.00	100.00
% SAMPLE WEIGHT	10.56	13.15	0.00	23.71

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	107	93	0	200
%	53.50	46.50	0.00	100.00
MEAN WEIGHT	74.28	80.76	0.00	77.29
% SAMP. WT.	51.41	48.59	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 82 - DEAN CHANNEL
SAMPLE NUMBERS: 243
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	66	2	13	4	0	0	0	0	15	100
% AT AGE	0.00	0.00	77.65	2.35	15.29	4.71	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	136.30	146.50	148.92	160.50	0.00	0.00	0.00	0.00	140.80	139.79
- STD. DEV.	0.00	0.00	7.25	2.12	6.21	4.20	0.00	0.00	0.00	0.00	12.96	10.05
WEIGHT - MEAN(gm)	0.00	0.00	29.55	37.00	37.38	47.75	0.00	0.00	0.00	0.00	32.67	31.91
- STD. DEV.	0.00	0.00	5.11	0.00	5.62	2.99	0.00	0.00	0.00	0.00	9.27	7.20

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	9	76	15	0	0	0
% AT STAGE	0.00	0.00	0.00	9.00	76.00	15.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	4	46	0	50
%	8.00	92.00	0.00	100.00
% SAMPLE WEIGHT	1.55	20.41	0.00	21.96

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	50	50	0	100
%	50.00	50.00	0.00	100.00
MEAN WEIGHT	31.58	32.24	0.00	31.91
% SAMP. WT.	49.48	50.52	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 83 - BENTINCK ARMS
SAMPLE NUMBERS: 246,225
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 5/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	9	174	6	4	0	0	0	0	0	7	200
% AT AGE	0.00	4.66	90.16	3.11	2.07	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	136.56	138.30	145.00	157.25	0.00	0.00	0.00	0.00	0.00	131.00	138.55
- STD. DEV.	0.00	13.93	7.51	10.12	9.50	0.00	0.00	0.00	0.00	0.00	4.36	8.48
WEIGHT - MEAN(gm)	0.00	28.22	31.50	35.67	41.00	0.00	0.00	0.00	0.00	0.00	27.00	31.51
- STD. DEV.	0.00	8.91	5.53	8.50	1.63	0.00	0.00	0.00	0.00	0.00	2.71	5.95

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	4	5	19	107	65	0	0	0	0
% AT STAGE	2.00	2.50	9.50	53.50	32.50	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	88	10	0	98
%	89.80	10.20	0.00	100.00
% SAMPLE WEIGHT	16.72	2.42	0.00	19.14

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	97	98	5	200
%	48.50	49.00	2.50	100.00
MEAN WEIGHT	30.75	32.47	27.40	31.51
% SAMP. WT.	47.33	50.49	2.17	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 85 - KWAKSHUA CHANNEL
SAMPLE NUMBERS: 344,137,131,134,129,325,132
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 5/88 - MAR 24/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	13	520	61	35	24	4	4	2	1	36	700
% AT AGE	0.00	1.96	78.31	9.19	5.27	3.61	0.60	0.60	0.30	0.15	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.23	173.44	188.07	198.20	202.54	202.00	220.00	221.50	225.00	180.64	177.79
- STD. DEV.	0.00	14.24	12.90	11.60	12.92	11.34	14.76	12.57	13.44	0.00	17.21	16.09
WEIGHT - MEAN(gm)	0.00	61.77	72.46	90.43	110.69	118.29	126.50	145.25	157.50	180.00	81.83	78.92
- STD. DEV.	0.00	19.46	19.11	19.82	20.28	25.45	29.49	37.88	27.58	0.00	23.90	24.80

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	1	315	376	4	2	0	0
% AT STAGE	0.00	0.29	0.14	45.00	53.71	0.57	0.29	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	153	152	1	306
%	50.00	49.67	0.33	100.00
% SAMPLE WEIGHT	10.72	13.04	0.00	23.76

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	394	306	0	700
%	56.29	43.71	0.00	100.00
MEAN WEIGHT	76.36	82.21	0.00	78.92
% SAMP. WT.	54.46	45.54	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 91 - FISH EGG INLET
SAMPLE NUMBERS: 130,139
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 23/88 - MAR 24/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	26	126	18	3	9	2	2	0	0	14	200
% AT AGE	0.00	13.98	67.74	9.68	1.61	4.84	1.08	1.08	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	146.58	167.94	182.50	204.33	211.56	225.50	217.00	0.00	0.00	161.00	169.57
- STD. DEV.	0.00	9.00	20.54	21.92	11.72	9.71	14.85	14.14	0.00	0.00	28.79	24.91
WEIGHT - MEAN(gm)	0.00	38.19	67.10	90.50	121.00	148.44	192.00	158.00	0.00	0.00	59.57	71.55
- STD. DEV.	0.00	11.69	30.67	36.18	22.61	29.18	73.54	43.84	0.00	0.00	43.62	40.57

NJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	13	24	49	110	0	3	0	0
% AT STAGE	0.50	6.50	12.00	24.50	55.00	0.00	1.50	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	40	62	2	104
%	38.46	59.62	1.92	100.00
% SAMPLE WEIGHT	2.09	21.34	0.01	23.44

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	95	104	1	200
%	47.50	52.00	0.50	100.00
MEAN WEIGHT	68.64	74.61	30.00	71.55
% SAMP. WT.	45.57	54.22	0.21	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 92 - RIVERS INLET MOUTH
SAMPLE NUMBERS: 138,128
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 22/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	32	137	10	6	3	1	1	0	0	10	200
% AT AGE	0.00	16.84	72.11	5.26	3.16	1.58	0.53	0.53	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	149.91	159.35	180.90	197.17	183.67	212.00	238.00	0.00	0.00	168.00	161.51
- STD. DEV.	0.00	11.49	16.75	18.28	11.05	4.93	0.00	0.00	0.00	0.00	17.80	19.46
WEIGHT - MEAN(gm)	0.00	39.50	51.39	89.40	105.17	77.33	109.00	202.00	0.00	0.00	61.20	54.92
- STD. DEV.	0.00	14.29	24.23	41.08	37.93	8.62	0.00	0.00	0.00	0.00	23.60	29.78

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	37	23	83	42	0	9	0	3
% AT STAGE	1.50	18.50	11.50	41.50	21.00	0.00	4.50	0.00	1.50

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	69	13	3	85
%	81.18	15.29	3.53	100.00
% SAMPLE WEIGHT	10.19	4.71	0.05	14.95

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	78	85	37	200
%	39.00	42.50	18.50	100.00
MEAN WEIGHT	54.47	65.93	30.59	54.92
% SAMP. WT.	38.68	51.02	10.30	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 102 - TAKUSH HARBOUR
SAMPLE NUMBERS: 135,133,136
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 21/88 - MAR 25/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	187	59	16	8	2	1	1	0	22	300
% AT AGE	0.00	1.44	67.27	21.22	5.76	2.88	0.72	0.36	0.36	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	151.25	164.19	181.07	190.19	195.75	208.50	210.00	236.00	0.00	174.77	171.03
- STD. DEV.	0.00	14.59	13.95	11.90	19.05	12.61	10.61	0.00	0.00	0.00	22.05	18.09
WEIGHT - MEAN(gm)	0.00	43.25	60.47	81.56	103.25	105.13	134.50	106.00	177.00	0.00	77.64	70.15
- STD. DEV.	0.00	12.31	17.89	20.89	38.28	22.36	27.58	0.00	0.00	0.00	32.37	26.57

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	51	247	0	1	0	0
% AT STAGE	0.00	0.00	0.33	17.00	82.33	0.00	0.33	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	21	124	0	145
%	14.48	85.52	0.00	100.00
% SAMPLE WEIGHT	2.60	22.72	0.00	25.33

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	155	145	0	300
%	51.67	48.33	0.00	100.00
MEAN WEIGHT	65.85	74.75	0.00	70.15
% SAMP. WT.	48.50	51.50	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 126 - KINGCOME INLET
SAMPLE NUMBERS: 117
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 17/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	14	61	6	2	3	0	1	0	0	13	100
% AT AGE	0.00	16.09	70.11	6.90	2.30	3.45	0.00	1.15	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	146.57	145.64	143.83	156.00	155.00	0.00	176.00	0.00	0.00	140.85	145.83
- STD. DEV.	0.00	9.00	8.95	23.22	8.49	14.53	0.00	0.00	0.00	0.00	10.58	11.06
WEIGHT - MEAN(gm)	0.00	36.36	36.33	40.33	49.00	42.00	0.00	70.00	0.00	0.00	33.38	36.95
- STD. DEV.	0.00	7.02	6.73	21.13	0.00	11.53	0.00	0.00	0.00	0.00	6.84	9.07

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	5	19	12	20	31	2	11	0	0
% AT STAGE	5.00	19.00	12.00	20.00	31.00	2.00	11.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	32	2	7	41
%	78.05	4.88	17.07	100.00
% SAMPLE WEIGHT	7.73	1.04	0.45	9.22

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	46	41	13	100
%	46.00	41.00	13.00	100.00
MEAN WEIGHT	36.37	37.56	37.08	36.95
% SAMP. WT.	45.28	41.68	13.04	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 127 - KNIGHT INLET
SAMPLE NUMBERS: 108
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 16/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	69	0	3	17	1	0	0	1	9	100
% AT AGE	0.00	0.00	75.82	0.00	3.30	18.68	1.10	0.00	0.00	1.10	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	152.06	0.00	178.00	182.18	191.00	0.00	0.00	200.00	164.78	159.97
- STD. DEV.	0.00	0.00	11.72	0.00	16.00	11.54	0.00	0.00	0.00	0.00	23.88	18.26
WEIGHT - MEAN(gm)	0.00	0.00	45.54	0.00	82.33	83.65	96.00	0.00	0.00	104.00	62.00	55.69
- STD. DEV.	0.00	0.00	13.82	0.00	25.54	18.46	0.00	0.00	0.00	0.00	26.30	22.95

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	2	8	86	0	0	0	0
% AT STAGE	0.00	4.00	2.00	8.00	86.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	4	44	0	48
%	8.33	91.67	0.00	100.00
% SAMPLE WEIGHT	1.23	22.44	0.00	23.67

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	52	48	0	100
%	52.00	48.00	0.00	100.00
MEAN WEIGHT	50.71	61.08	0.00	55.69
% SAMP. WT.	47.35	52.65	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 132 - DEEPWATER BAY
SAMPLE NUMBERS: 113,124
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 12/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	73	104	2	0	1	0	0	0	0	20	200
% AT AGE	0.00	40.56	57.78	1.11	0.00	0.56	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	149.00	170.20	187.00	0.00	196.00	0.00	0.00	0.00	0.00	154.70	161.21
- STD. DEV.	0.00	8.72	10.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	14.06	14.96
WEIGHT - MEAN(gm)	0.00	40.41	59.98	96.00	0.00	107.00	0.00	0.00	0.00	0.00	46.25	52.06
- STD. DEV.	0.00	7.08	13.69	50.91	0.00	0.00	0.00	0.00	0.00	0.00	15.22	16.46

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	19	45	28	94	8	0	6	0	0
% AT STAGE	9.50	22.50	14.00	47.00	4.00	0.00	3.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	81	0	0	81
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	11.09	0.00	0.00	11.09

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	91	81	28	200
%	45.50	40.50	14.00	100.00
MEAN WEIGHT	53.68	55.11	37.96	52.06
% SAMP. WT.	46.92	42.87	10.21	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 136 - REED ISLAND
SAMPLE NUMBERS: 338
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 25/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	43	21	15	5	1	0	0	0	15	100
% AT AGE	0.00	0.00	50.59	24.71	17.65	5.88	1.18	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	182.56	191.52	197.73	204.40	217.00	0.00	0.00	0.00	191.13	189.44
- STD. DEV.	0.00	0.00	8.79	10.24	10.40	9.02	0.00	0.00	0.00	0.00	15.37	12.54
WEIGHT - MEAN(gm)	0.00	0.00	82.12	97.81	104.93	123.80	159.00	0.00	0.00	0.00	98.47	94.14
- STD. DEV.	0.00	0.00	13.45	20.39	17.67	15.51	0.00	0.00	0.00	0.00	26.50	22.07

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	91	8	0	0	0	0
% AT STAGE	0.00	1.00	0.00	91.00	8.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	41	3	0	44
%	93.18	6.82	0.00	100.00
% SAMPLE WEIGHT	15.98	1.44	0.00	17.42

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	55	44	1	100
%	55.00	44.00	1.00	100.00
MEAN WEIGHT	94.05	94.73	73.00	94.14
% SAMP. WT.	54.95	44.27	0.78	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 142 - BAYNES SOUND
SAMPLE NUMBERS: 49, 41, 44, 36, 33, 26, 46, 17, 53, 8, 161,156, 24, 35, 39,158, 31,335, 42,142, 23, 29
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88 - MAR 9/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	56	1050	342	361	88	23	4	2	0	272	2198
% AT AGE	0.00	2.91	54.52	17.76	18.74	4.57	1.19	0.21	0.10	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	172.84	190.13	202.51	209.78	214.13	221.22	229.25	234.50	0.00	197.57	197.16
- STD. DEV.	0.00	12.70	11.96	9.83	9.03	11.37	8.48	11.32	10.61	0.00	15.30	15.02
WEIGHT - MEAN(gm)	0.00	65.27	93.21	117.16	134.02	144.88	157.96	178.25	199.00	0.00	108.97	107.88
- STD. DEV.	0.00	17.58	21.05	20.78	21.97	29.22	21.96	30.86	35.36	0.00	30.58	29.90

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	11	9	866	1205	52	55	0	0
% AT STAGE	0.00	0.50	0.41	39.40	54.82	2.37	2.50	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	479	663	25	1167
%	41.05	56.81	2.14	100.00
% SAMPLE WEIGHT	7.78	15.97	0.02	23.78

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1026	1167	5	2198
%	46.68	53.09	0.23	100.00
MEAN WEIGHT	103.31	112.13	52.80	107.88
% SAMP. WT.	44.70	55.19	0.11	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 143 - QUALICUM
SAMPLE NUMBERS: 106, 34, 98, 9
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 2/88 - MAR 10/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	14	232	64	29	5	3	1	0	0	52	400
% AT AGE	0.00	4.02	66.67	18.39	8.33	1.44	0.86	0.29	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	168.29	189.14	198.97	204.14	217.40	221.33	217.00	0.00	0.00	193.94	192.36
- STD. DEV.	0.00	17.05	10.82	11.68	11.76	2.79	4.04	0.00	0.00	0.00	14.16	13.92
WEIGHT - MEAN(gm)	0.00	63.21	91.91	108.70	114.48	153.60	143.00	165.00	0.00	0.00	98.31	97.40
- STD. DEV.	0.00	14.77	17.87	20.75	22.06	19.53	11.79	0.00	0.00	0.00	23.46	23.15

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	8	108	260	5	18	1	0
% AT STAGE	0.00	0.00	2.00	27.00	65.00	1.25	4.50	0.25	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	60	136	7	203
%	29.56	67.00	3.45	100.00
% SAMPLE WEIGHT	5.35	17.78	0.09	23.22

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	196	203	1	400
%	49.00	50.75	0.25	100.00
MEAN WEIGHT	92.77	101.88	94.00	97.40
% SAMP. WT.	46.67	53.09	0.24	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 152 - POWELL RIVER
SAMPLE NUMBERS: 160,337,342,110,327,332,336, 88,157,162
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88 - MAR 17/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	16	480	123	169	62	13	5	0	0	132	1000
% AT AGE	0.00	1.84	55.30	14.17	19.47	7.14	1.50	0.58	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.56	181.04	197.66	201.79	207.89	217.62	219.00	0.00	0.00	194.86	190.53
- STD. DEV.	0.00	11.30	9.87	9.00	9.59	7.63	5.24	5.34	0.00	0.00	16.43	15.09
WEIGHT - MEAN(gm)	0.00	60.56	75.31	102.32	110.47	123.35	139.69	141.80	0.00	0.00	97.89	91.47
- STD. DEV.	0.00	11.27	14.56	17.94	19.40	18.01	15.46	11.12	0.00	0.00	24.22	25.18

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	8	2	637	321	30	0	0	0
% AT STAGE	0.20	0.80	0.20	63.70	32.10	3.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	396	99	0	495
%	80.00	20.00	0.00	100.00
% SAMPLE WEIGHT	15.79	4.03	0.00	19.83

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	502	495	3	1000
%	50.20	49.50	0.30	100.00
MEAN WEIGHT	87.48	95.72	57.67	91.47
% SAMP. WT.	48.01	51.80	0.19	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 162 - HOTHAM SOUND
SAMPLE NUMBERS: 154
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 1/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	41	14	23	7	1	1	0	0	10	100
% AT AGE	0.00	3.33	45.56	15.56	25.56	7.78	1.11	1.11	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.00	183.07	196.50	203.22	214.29	204.00	225.00	0.00	0.00	193.20	192.69
- STD. DEV.	0.00	15.62	9.10	11.82	8.33	10.81	0.00	0.00	0.00	0.00	8.93	15.23
WEIGHT - MEAN(gm)	0.00	58.67	81.37	100.00	113.57	145.43	135.00	159.00	0.00	0.00	101.30	98.49
- STD. DEV.	0.00	13.58	15.63	14.93	17.05	36.06	0.00	0.00	0.00	0.00	36.18	28.70

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	86	13	0	0	0	0
% AT STAGE	0.00	1.00	0.00	86.00	13.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	44	1	0	45
%	97.78	2.22	0.00	100.00
% SAMPLE WEIGHT	19.49	1.04	0.00	20.53

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	55	45	0	100
%	55.00	45.00	0.00	100.00
MEAN WEIGHT	95.47	102.18	0.00	98.49
% SAMP. WT.	53.32	46.68	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 172 - NANOOSE BAY
SAMPLE NUMBERS: 20, 12,345, 30,331, 22, 27, 5
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 26/88 - MAR 8/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	81	511	68	26	5	1	0	1	0	107	800
% AT AGE	0.00	11.69	73.74	9.81	3.75	0.72	0.14	0.00	0.14	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	168.15	185.19	195.51	208.58	212.80	228.00	0.00	244.00	0.00	187.29	185.68
- STD. DEV.	0.00	12.21	13.15	12.44	12.60	5.54	0.00	0.00	0.00	0.00	14.40	15.46
WEIGHT - MEAN(gm)	0.00	60.22	84.41	103.90	130.35	140.00	168.00	0.00	208.00	0.00	88.23	86.23
- STD. DEV.	0.00	14.09	20.15	22.60	23.66	11.40	0.00	0.00	0.00	0.00	25.46	25.14

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	19	3	521	236	15	4	0	0
% AT STAGE	0.25	2.38	0.38	65.13	29.50	1.88	0.50	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	293	124	3	420
%	69.76	29.52	0.71	100.00
% SAMPLE WEIGHT	11.28	8.71	0.02	20.01

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	376	420	4	800
%	47.00	52.50	0.50	100.00
MEAN WEIGHT	82.56	89.92	43.50	86.23
% SAMP. WT.	45.00	54.75	0.25	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT
SAMPLE NUMBERS: 105, 96,126, 25, 11, 91, 97, 15,103
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 23/88 - MAR 18/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	63	537	83	46	8	2	0	0	0	161	900
% AT AGE	0.00	8.53	72.67	11.23	6.22	1.08	0.27	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.60	187.17	197.80	204.57	222.50	229.50	0.00	0.00	0.00	189.01	188.34
- STD. DEV.	0.00	14.95	12.31	14.08	11.64	10.21	6.36	0.00	0.00	0.00	14.69	15.49
WEIGHT - MEAN(gm)	0.00	60.41	86.58	104.87	118.83	149.25	134.50	0.00	0.00	0.00	90.57	89.46
- STD. DEV.	0.00	18.04	18.24	22.33	27.45	31.13	7.78	0.00	0.00	0.00	22.11	23.77

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	6	10	3	303	453	7	116	2	0
% AT STAGE	0.67	1.11	0.33	33.67	50.33	0.78	12.89	0.22	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	175	228	58	461
%	37.96	49.46	12.58	100.00
% SAMPLE WEIGHT	7.11	12.96	0.17	20.24

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	434	461	5	900
%	48.22	51.22	0.56	100.00
MEAN WEIGHT	85.60	93.65	37.00	89.46
% SAMP. WT.	46.15	53.62	0.23	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 181 - SWANSON CHANNEL
SAMPLE NUMBERS: 13
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 28/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	70	5	9	0	1	0	0	0	9	100
% AT AGE	0.00	6.59	76.92	5.49	9.89	0.00	1.10	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	172.17	188.50	193.00	209.67	0.00	240.00	0.00	0.00	0.00	194.67	190.72
- STD. DEV.	0.00	4.83	9.19	12.90	6.48	0.00	0.00	0.00	0.00	0.00	9.34	12.66
WEIGHT - MEAN(gm)	0.00	66.17	95.21	102.00	134.22	0.00	198.00	0.00	0.00	0.00	106.33	99.35
- STD. DEV.	0.00	13.67	15.21	19.76	14.18	0.00	0.00	0.00	0.00	0.00	17.75	22.82

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	83	13	1	0	1	0
% AT STAGE	0.00	1.00	1.00	83.00	13.00	1.00	0.00	1.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	46	4	1	51
%	90.20	7.84	1.96	100.00
% SAMPLE WEIGHT	17.93	2.17	0.28	20.38

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	49	51	0	100
%	49.00	51.00	0.00	100.00
MEAN WEIGHT	93.59	104.88	0.00	99.35
% SAMP. WT.	46.16	53.84	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 182 - PLUMPER SOUND
SAMPLE NUMBERS: 21
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 27/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	60	14	10	1	2	0	0	0	8	100
% AT AGE	0.00	5.43	65.22	15.22	10.87	1.09	2.17	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.60	187.95	201.36	206.40	225.00	229.50	0.00	0.00	0.00	194.25	192.76
- STD. DEV.	0.00	5.41	10.37	8.88	11.35	0.00	12.02	0.00	0.00	0.00	9.87	13.85
WEIGHT - MEAN(gm)	0.00	68.00	93.50	111.21	130.10	186.00	176.50	0.00	0.00	0.00	101.63	101.60
- STD. DEV.	0.00	7.07	17.63	12.10	21.27	0.00	3.54	0.00	0.00	0.00	19.49	25.53

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	1	36	37	21	3	0	0
% AT STAGE	0.00	2.00	1.00	36.00	37.00	21.00	3.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	29	22	0	51
%	56.86	43.14	0.00	100.00
% SAMPLE WEIGHT	10.19	9.26	0.00	19.45

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	48	51	1	100
%	48.00	51.00	1.00	100.00
MEAN WEIGHT	100.08	103.53	76.00	101.60
% SAMP. WT.	47.28	51.97	0.75	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 231 - TREVOR CHANNEL
SAMPLE NUMBERS: 43, 47, 54,330
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88 - MAR 1/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	10	238	26	44	12	5	2	1	1	61	400
% AT AGE	0.00	2.95	70.21	7.67	12.98	3.54	1.47	0.59	0.29	0.29	0.00	100.00
LENGTH - MEAN(mm)	0.00	176.70	193.04	208.54	216.30	227.75	228.00	247.50	230.00	228.00	197.25	198.77
- STD. DEV.	0.00	14.13	10.82	8.04	8.73	8.54	9.82	10.61	0.00	0.00	11.92	15.35
WEIGHT - MEAN(gm)	0.00	75.50	102.42	130.31	148.45	185.83	181.40	211.50	163.00	189.00	108.28	113.92
- STD. DEV.	0.00	23.71	19.88	17.70	20.72	35.53	29.57	14.85	0.00	0.00	23.80	31.51

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	2	1	219	172	3	0	1	0
% AT STAGE	0.50	0.50	0.25	54.75	43.00	0.75	0.00	0.25	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	181	38	1	220
%	82.27	17.27	0.45	100.00
% SAMPLE WEIGHT	18.02	5.34	0.00	23.36

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	178	220	2	400
%	44.50	55.00	0.50	100.00
MEAN WEIGHT	107.39	119.05	132.00	113.92
% SAMP. WT.	41.95	57.47	0.58	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS
SAMPLE NUMBERS: 45, 37, 52, 48, 1, 51, 32,104, 56,140, 58,340, 55,329, 57, 99,109, 50
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/88 - MAR 16/88

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	34	1073	117	193	85	30	6	6	3	253	1800
% AT AGE	0.00	2.20	69.36	7.56	12.48	5.49	1.94	0.39	0.39	0.19	0.00	100.00
LENGTH - MEAN(mm)	0.00	172.68	193.49	204.72	218.04	224.46	232.43	242.50	237.50	250.67	201.19	200.06
- STD. DEV.	0.00	15.57	10.27	10.53	9.68	8.47	10.25	6.72	6.72	3.06	14.95	16.05
WEIGHT - MEAN(gm)	0.00	74.56	105.33	127.71	161.19	174.78	194.53	208.83	203.83	214.33	122.13	120.17
- STD. DEV.	0.00	21.57	19.13	23.87	24.62	27.91	33.68	17.19	17.65	23.59	33.37	34.56

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	2	458	1323	15	1	0	0
% AT STAGE	0.00	0.06	0.11	25.44	73.50	0.83	0.06	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	185	720	0	905
%	20.44	79.56	0.00	100.00
% SAMPLE WEIGHT	4.07	23.34	0.00	27.42

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	895	905	0	1800
%	49.72	50.28	0.00	100.00
MEAN WEIGHT	112.93	127.34	0.00	120.17
% SAMP. WT.	46.72	53.28	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 233 - IMPERIAL EAGLE CHANNEL
SAMPLE NUMBERS: 10, 40
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 5/88 - MAR 7/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	139	13	14	6	3	1	0	0	19	200
% AT AGE	0.00	2.76	76.80	7.18	7.73	3.31	1.66	0.55	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	173.80	192.93	211.92	220.71	225.33	242.33	244.00	0.00	0.00	194.58	197.76
- STD. DEV.	0.00	16.01	8.69	5.95	10.44	8.24	11.85	0.00	0.00	0.00	27.43	16.84
WEIGHT - MEAN(gm)	0.00	72.40	100.60	130.31	153.21	165.17	192.33	203.00	0.00	0.00	113.21	110.54
- STD. DEV.	0.00	20.84	17.09	16.81	20.49	19.30	23.63	0.00	0.00	0.00	37.23	29.83

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	78	114	7	0	0	0
% AT STAGE	0.00	0.00	0.50	39.00	57.00	3.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	30	68	0	98
%	30.61	69.39	0.00	100.00
% SAMPLE WEIGHT	5.28	19.23	0.00	24.52

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	102	98	0	200
%	51.00	49.00	0.00	100.00
MEAN WEIGHT	107.40	113.80	0.00	110.54
% SAMP. WT.	49.55	50.45	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 243 - SYDNEY INLET
SAMPLE NUMBERS: 125, 16, 18, 28,151,352,147, 38,144,123, 14
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88 - MAR 16/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	71	585	62	126	89	34	13	4	2	114	1100
% AT AGE	0.00	7.20	59.33	6.29	12.78	9.03	3.45	1.32	0.41	0.20	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.00	190.25	206.84	218.96	225.94	234.65	234.62	240.50	238.50	204.24	199.48
- STD. DEV.	0.00	10.85	10.71	8.84	8.62	7.80	7.58	7.89	13.63	0.71	19.04	20.18
WEIGHT - MEAN(gm)	0.00	62.17	97.31	127.42	163.24	179.26	200.06	193.00	205.25	224.00	129.68	119.20
- STD. DEV.	0.00	12.49	20.58	24.58	22.95	22.96	24.48	25.26	47.18	9.90	40.73	43.37

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	16	28	321	624	29	79	0	1
% AT STAGE	0.18	1.45	2.55	29.18	56.73	2.64	7.18	0.00	0.09

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	209	340	35	584
%	35.79	58.22	5.99	100.00
% SAMPLE WEIGHT	7.29	18.57	0.06	25.92

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	513	584	3	1100
%	46.64	53.09	0.27	100.00
MEAN WEIGHT	113.91	124.16	60.00	119.20
% SAMP. WT.	44.56	55.30	0.14	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 244 - MILLER CHANNEL
SAMPLE NUMBERS: 324
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 18/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	47	7	17	6	4	0	0	0	17	100
% AT AGE	0.00	2.41	56.63	8.43	20.48	7.23	4.82	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.00	192.55	201.86	215.65	221.50	235.75	0.00	0.00	0.00	209.82	202.90
- STD. DEV.	0.00	1.41	8.77	10.45	8.21	7.01	4.99	0.00	0.00	0.00	16.57	16.97
WEIGHT - MEAN(gm)	0.00	58.00	105.94	127.14	158.35	174.17	210.50	0.00	0.00	0.00	145.82	130.43
- STD. DEV.	0.00	9.90	15.65	22.92	22.01	16.93	28.99	0.00	0.00	0.00	37.97	37.93

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	1	96	3	0	0	0
% AT STAGE	0.00	0.00	0.00	1.00	96.00	3.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	50	0	50
%	0.00	100.00	0.00	100.00
% SAMPLE WEIGHT	0.00	29.91	0.00	29.91

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	50	50	0	100
%	50.00	50.00	0.00	100.00
MEAN WEIGHT	126.40	134.46	0.00	130.43
% SAMP. WT.	48.46	51.54	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 245 - VARGAS ISLAND
SAMPLE NUMBERS: 112,114,100,148,111,145,351,107,115,143,
122,120,119, 90,118,141,149
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 10/88 - MAR 17/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	18	629	110	297	193	70	14	11	5	316	1663
% AT AGE	0.00	1.34	46.70	8.17	22.05	14.33	5.20	1.04	0.82	0.37	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.89	194.55	208.68	219.65	225.21	232.91	239.64	240.91	247.00	211.67	208.98
- STD. DEV.	0.00	18.75	9.43	9.11	9.38	8.52	7.63	5.85	6.55	3.61	19.60	18.23
WEIGHT - MEAN(gm)	0.00	72.56	108.17	136.25	162.85	179.47	198.10	211.00	213.27	229.80	145.72	140.53
- STD. DEV.	0.00	20.41	18.63	19.08	23.88	25.90	24.69	19.52	30.03	28.53	44.51	41.33

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	84	1531	48	0	0	0
% AT STAGE	0.00	0.00	0.00	5.05	92.06	2.89	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	4	830	0	834
%	0.48	99.52	0.00	100.00
% SAMPLE WEIGHT	0.12	30.36	0.00	30.48

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	829	834	0	1663
%	49.85	50.15	0.00	100.00
MEAN WEIGHT	130.55	150.45	0.00	140.53
% SAMP. WT.	46.31	53.69	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 251 - OTHER AREA 25
SAMPLE NUMBERS: 333
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	74	5	6	2	1	1	0	0	8	100
% AT AGE	0.00	3.26	80.43	5.43	6.52	2.17	1.09	1.09	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.00	189.23	198.60	216.67	215.50	225.00	226.00	0.00	0.00	200.75	192.61
- STD. DEV.	0.00	9.64	10.21	5.13	7.28	4.95	0.00	0.00	0.00	0.00	8.66	14.33
WEIGHT - MEAN(gm)	0.00	57.67	96.19	116.80	152.50	157.00	176.00	150.00	0.00	0.00	112.13	103.27
- STD. DEV.	0.00	10.26	17.80	10.83	16.96	15.56	0.00	0.00	0.00	0.00	18.68	26.06

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	66	34	0	0	0	0
% AT STAGE	0.00	0.00	0.00	66.00	34.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	36	5	0	41
%	87.80	12.20	0.00	100.00
% SAMPLE WEIGHT	19.71	3.46	0.00	23.18

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	59	41	0	100
%	59.00	41.00	0.00	100.00
MEAN WEIGHT	99.20	109.12	0.00	103.27
% SAMP. WT.	56.68	43.32	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 252 - NOOTKA SOUND
SAMPLE NUMBERS: 94,163,116,101,150,121
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 23/88 - MAR 3/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	15	348	52	57	55	4	0	1	0	68	600
% AT AGE	0.00	2.82	65.41	9.77	10.71	10.34	0.75	0.00	0.19	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.13	193.01	206.54	218.00	225.35	221.00	0.00	238.00	0.00	200.65	200.05
- STD. DEV.	0.00	11.93	8.99	8.99	8.27	9.03	6.58	0.00	0.00	0.00	13.25	15.56
WEIGHT - MEAN(gm)	0.00	68.13	104.07	131.71	161.02	178.29	162.00	0.00	222.00	0.00	120.13	120.19
- STD. DEV.	0.00	16.69	17.02	21.06	23.89	31.97	6.06	0.00	0.00	0.00	28.91	34.34

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	2	246	338	12	0	0	0
% AT STAGE	0.00	0.33	0.33	41.00	56.33	2.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	192	153	0	345
%	55.65	44.35	0.00	100.00
% SAMPLE WEIGHT	12.07	13.82	0.00	25.89

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	254	345	1	600
%	42.33	57.50	0.17	100.00
MEAN WEIGHT	116.65	122.91	80.00	120.19
% SAMP. WT.	41.09	58.80	0.11	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 253 - ESPERANZA INLET
SAMPLE NUMBERS: 92, 89, 95, 7,127, 93
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 25/88 - MAR 4/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	18	298	54	63	102	6	3	1	0	55	600
% AT AGE	0.00	3.30	54.68	9.91	11.56	18.72	1.10	0.55	0.18	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	168.17	192.34	209.35	217.89	225.21	233.17	229.67	229.00	0.00	203.47	203.09
- STD. DEV.	0.00	14.67	9.38	8.84	8.29	7.76	5.85	7.51	0.00	0.00	17.22	17.86
WEIGHT - MEAN(gm)	0.00	70.28	103.44	137.94	162.71	187.00	201.00	220.33	171.00	0.00	130.36	130.12
- STD. DEV.	0.00	21.76	17.48	23.42	25.48	25.34	25.39	12.42	0.00	0.00	37.98	41.82

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	178	397	23	2	0	0
% AT STAGE	0.00	0.00	0.00	29.67	66.17	3.83	0.33	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	138	216	0	354
%	38.98	61.02	0.00	100.00
% SAMPLE WEIGHT	7.48	18.97	0.00	26.45

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	246	354	0	600
%	41.00	59.00	0.00	100.00
MEAN WEIGHT	125.53	133.31	0.00	130.12
% SAMP. WT.	39.55	60.45	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 263 - CHECLESET BAY
SAMPLE NUMBERS: 19
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 29/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	91	1	1	0	0	0	0	0	3	100
% AT AGE	0.00	4.12	93.81	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.75	185.58	200.00	221.00	0.00	0.00	0.00	0.00	0.00	190.67	185.68
- STD. DEV.	0.00	8.73	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.26	9.74
WEIGHT - MEAN(gm)	0.00	66.25	88.67	103.00	150.00	0.00	0.00	0.00	0.00	0.00	92.67	88.65
- STD. DEV.	0.00	13.30	12.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.69	14.78

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	9	91	0	0	0
% AT STAGE	0.00	0.00	0.00	0.00	9.00	91.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	86	0	86
%	0.00	100.00	0.00	100.00
% SAMPLE WEIGHT	0.00	19.85	0.00	19.85

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	14	86	0	100
%	14.00	86.00	0.00	100.00
MEAN WEIGHT	78.93	90.23	0.00	88.65
% SAMP. WT.	12.46	87.54	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 272 - BROOKS BAY
SAMPLE NUMBERS: 4, 3
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 1/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	102	21	11	44	4	3	0	0	12	200
% AT AGE	0.00	1.60	54.26	11.17	5.85	23.40	2.13	1.60	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.00	191.55	210.86	216.09	224.30	227.50	229.00	0.00	0.00	209.50	204.06
- STD. DEV.	0.00	13.11	9.61	10.58	9.45	8.55	11.90	2.65	0.00	0.00	21.23	18.40
WEIGHT - MEAN(gm)	0.00	59.67	99.37	139.71	147.91	175.66	198.25	186.33	0.00	0.00	146.50	128.57
- STD. DEV.	0.00	16.17	19.90	24.30	18.40	22.48	45.94	16.50	0.00	0.00	39.43	41.35

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	72	125	3	0	0	0
% AT STAGE	0.00	0.00	0.00	36.00	62.50	1.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	31	75	0	106
%	29.25	70.75	0.00	100.00
% SAMPLE WEIGHT	7.37	19.48	0.00	26.85

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	94	106	0	200
%	47.00	53.00	0.00	100.00
MEAN WEIGHT	118.64	137.39	0.00	128.57
% SAMP. WT.	43.37	56.63	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 273 - FORWARD INLET
SAMPLE NUMBERS: 2, 6
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 27/88 - MAR 1/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	130	20	12	13	2	0	0	1	17	200
% AT AGE	0.00	2.73	71.04	10.93	6.56	7.10	1.09	0.00	0.00	0.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.80	191.35	207.75	217.75	226.31	220.50	0.00	0.00	239.00	199.71	197.45
- STD. DEV.	0.00	9.04	9.14	11.52	8.37	5.82	17.68	0.00	0.00	0.00	11.81	15.53
WEIGHT - MEAN(gm)	0.00	64.20	100.89	133.70	159.00	186.77	172.50	0.00	0.00	262.00	115.35	115.07
- STD. DEV.	0.00	15.69	17.28	24.13	17.35	14.87	55.86	0.00	0.00	0.00	26.59	34.37

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	0	0	102	96	1	0	0	0
% AT STAGE	0.50	0.00	0.00	51.00	48.00	0.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	76	30	0	106
%	71.70	28.30	0.00	100.00
% SAMPLE WEIGHT	15.91	8.01	0.00	23.92

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	93	106	1	200
%	46.50	53.00	0.50	100.00
MEAN WEIGHT	107.95	120.81	170.00	115.07
% SAMP. WT.	43.62	55.64	0.74	100.00

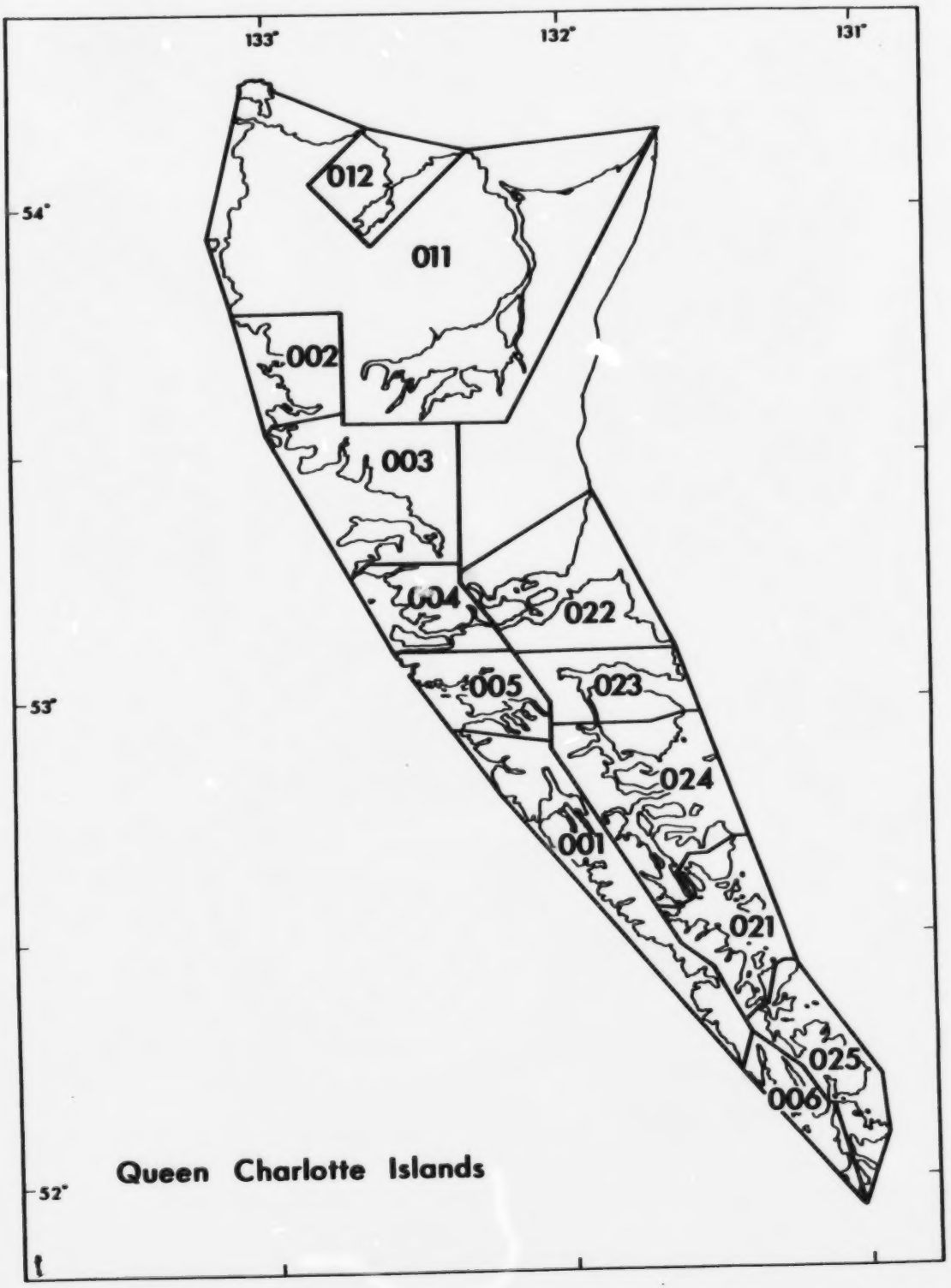

Fig. 1. Herring sections in the Queen Charlotte Islands region.

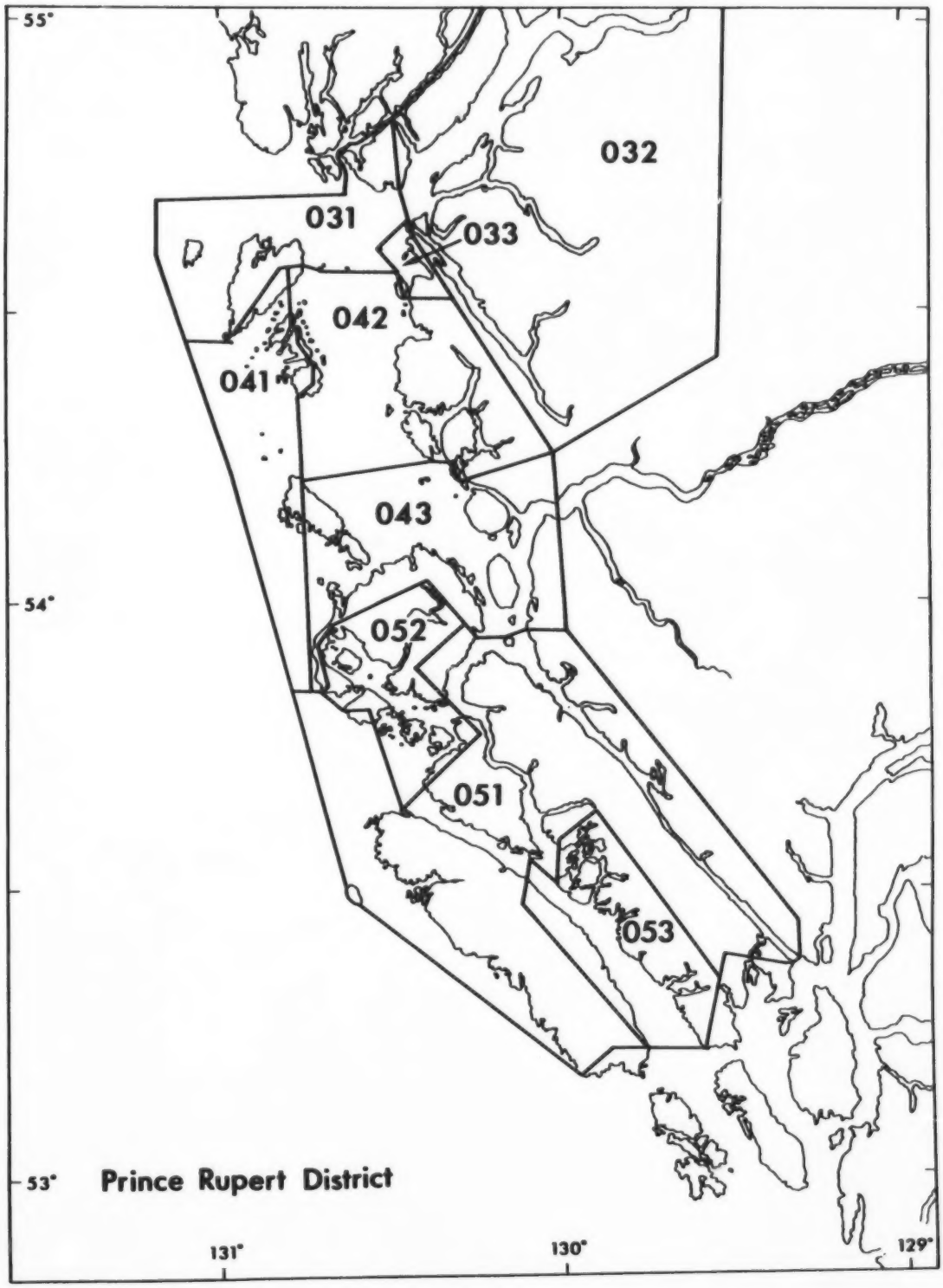

Fig. 2. Herring sections in the Prince Rupert District region.

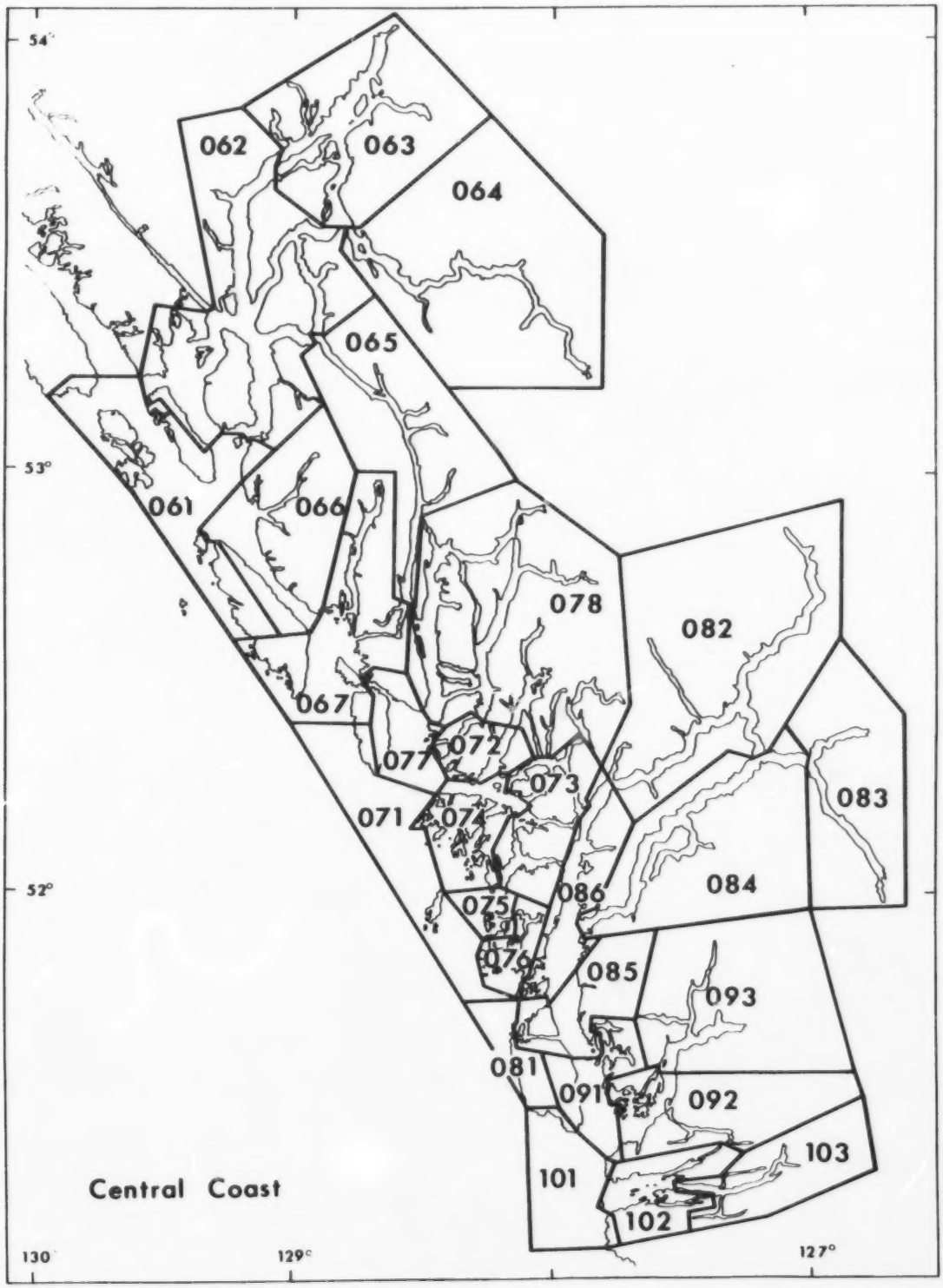

Fig. 3. Herring sections in the Central Coast region.

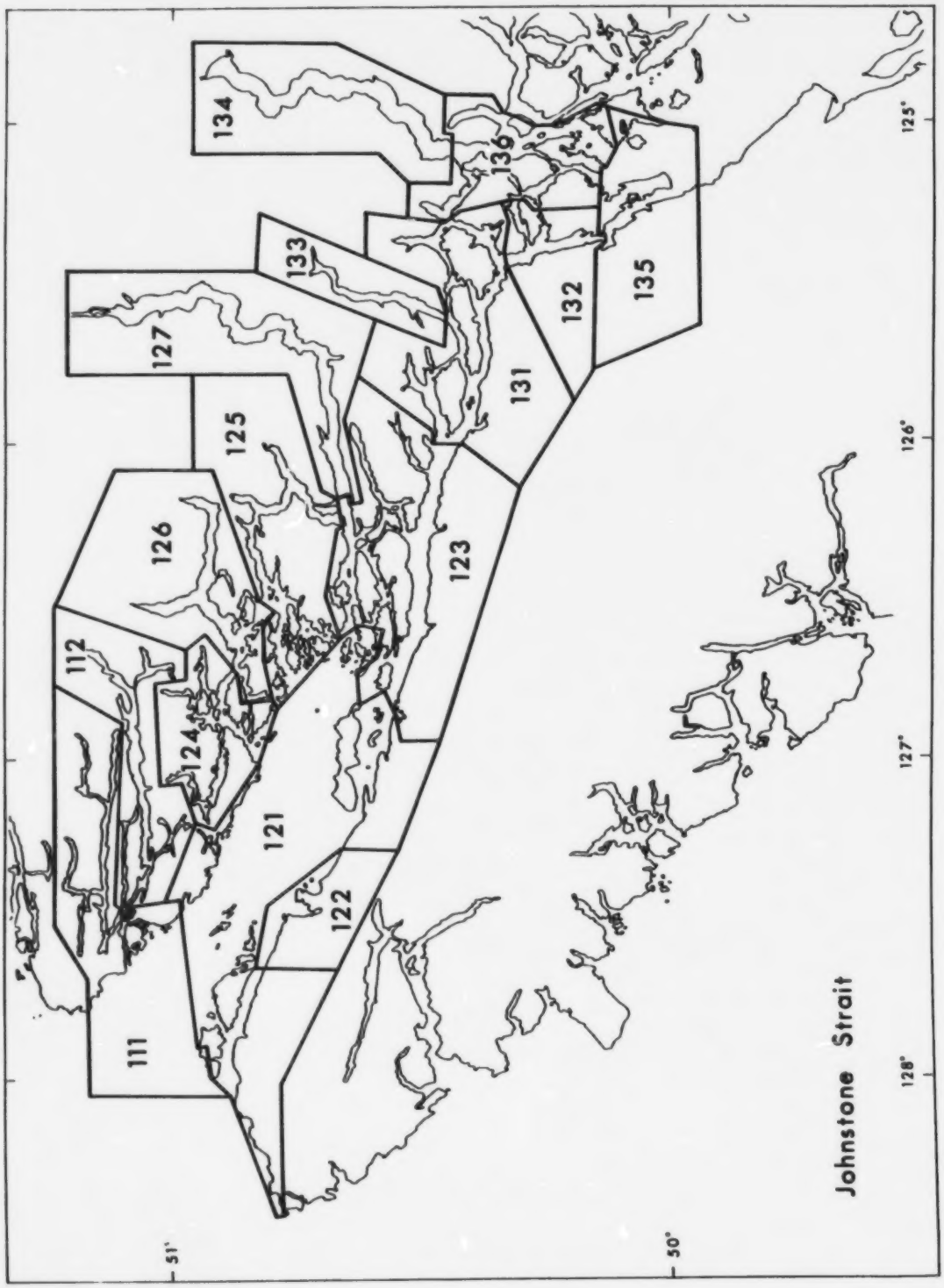

Fig. 4. Herring sections in the Johnstone Strait region.

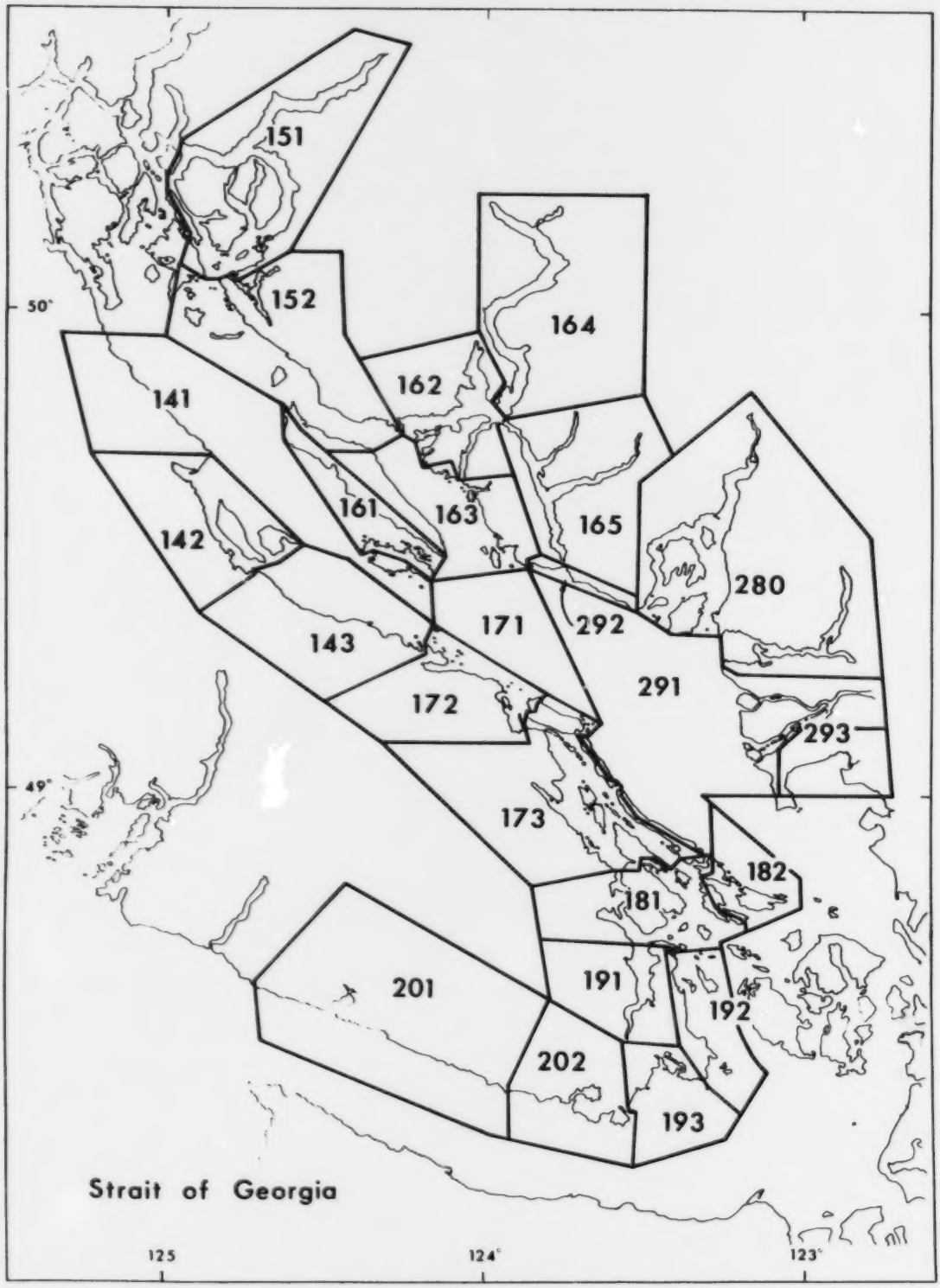

Fig. 5. Herring sections in the Strait of Georgia region.

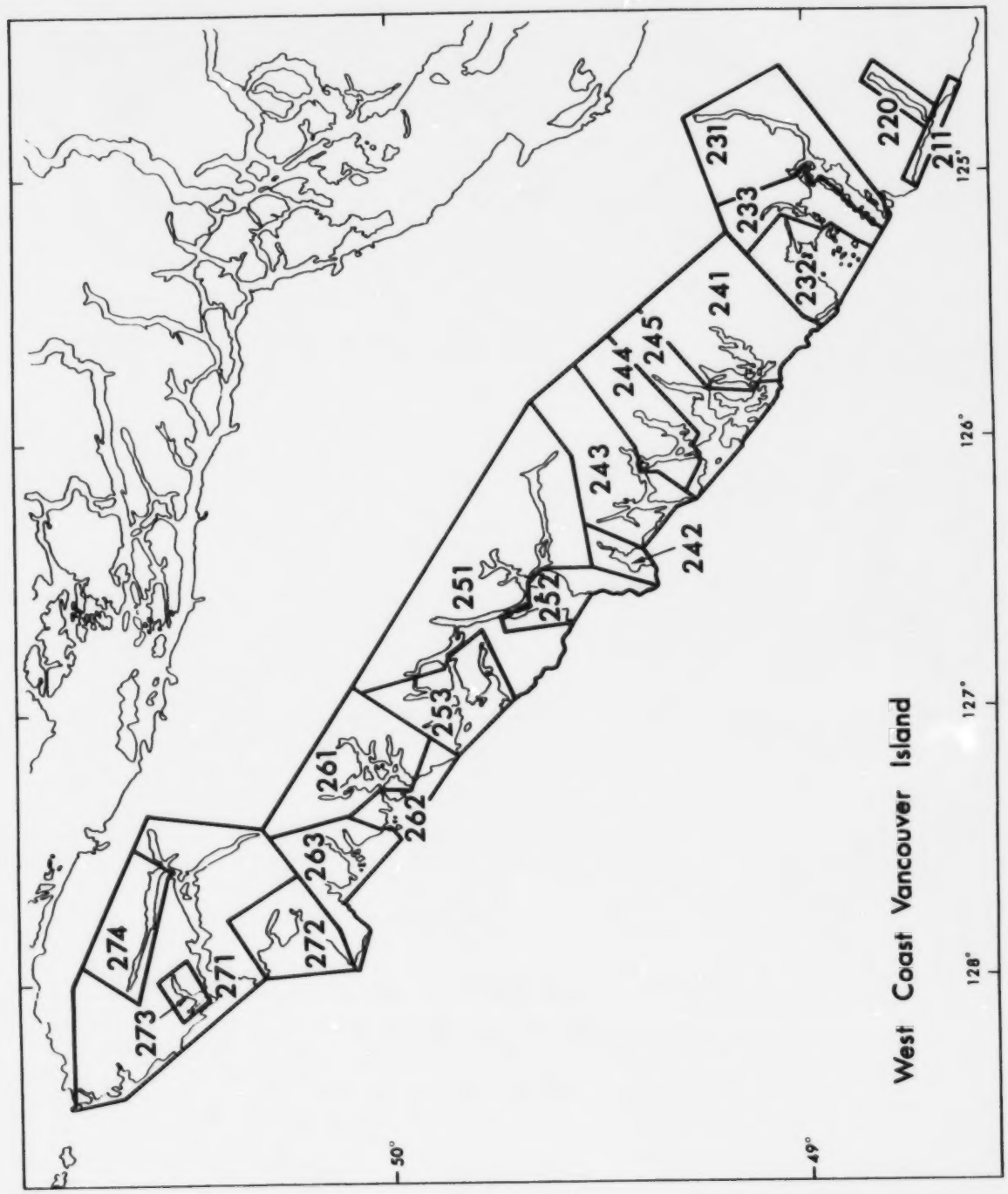

Fig. 6. Herring sections in the West Coast of Vancouver Island region.